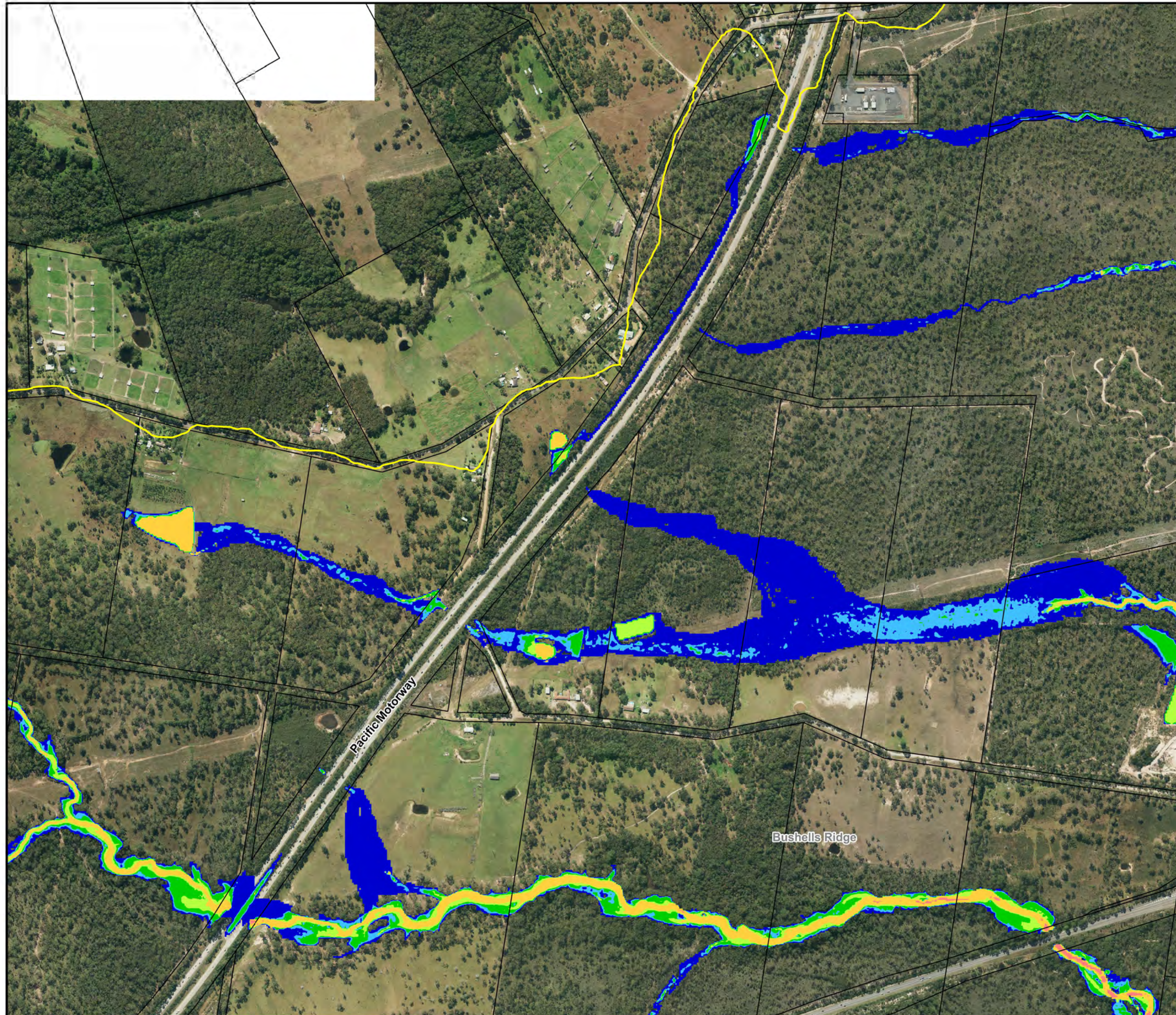


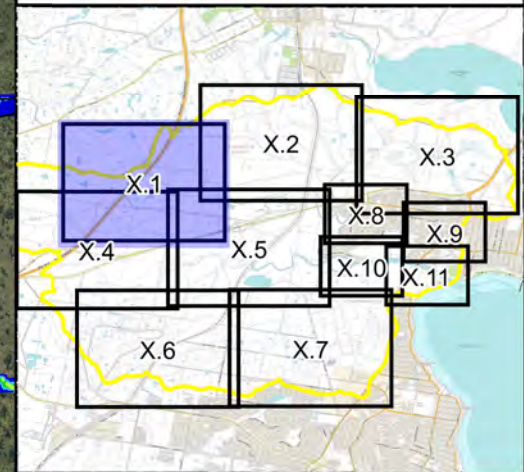


FLOOD HAZARD MAPS



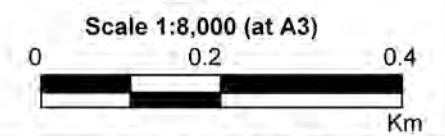


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Council




LEGEND

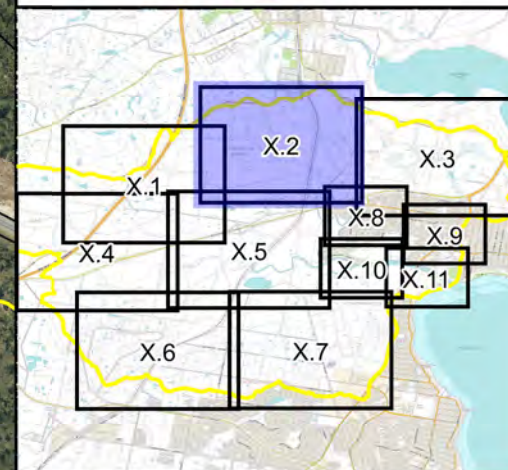
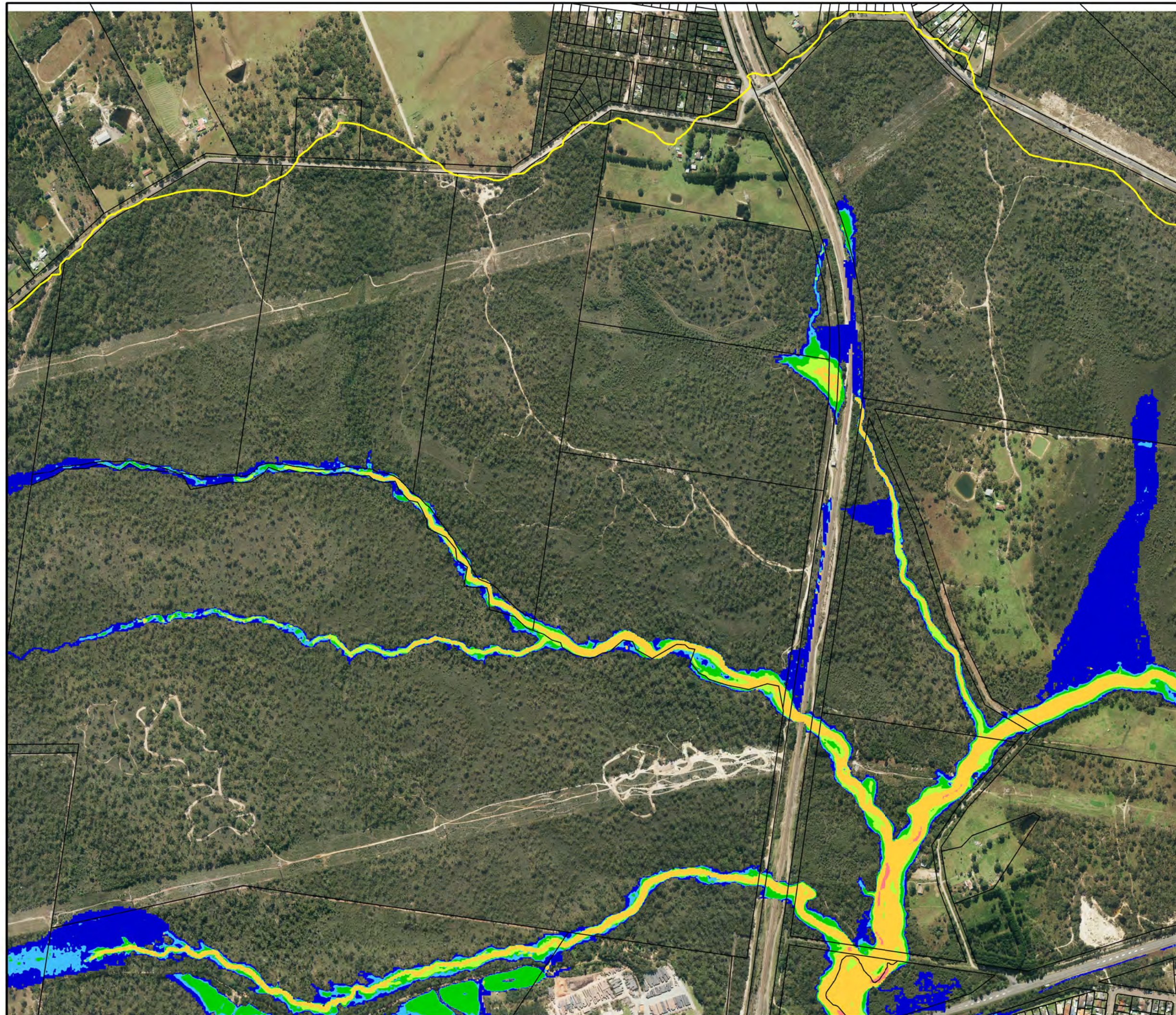
- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



**Figure 13.1:
Hazard
Categories for the
1% AEP Flood**

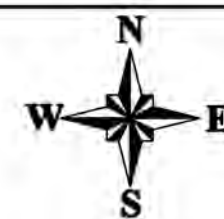
Prepared By:
 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig13.1 - Hazard Categories
for the 1% AEP Flood.wor



LEGEND


- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



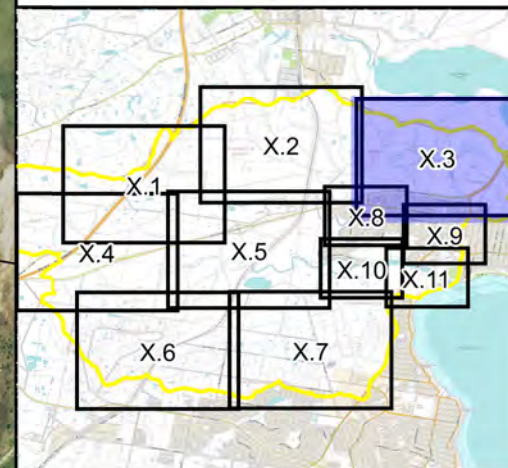
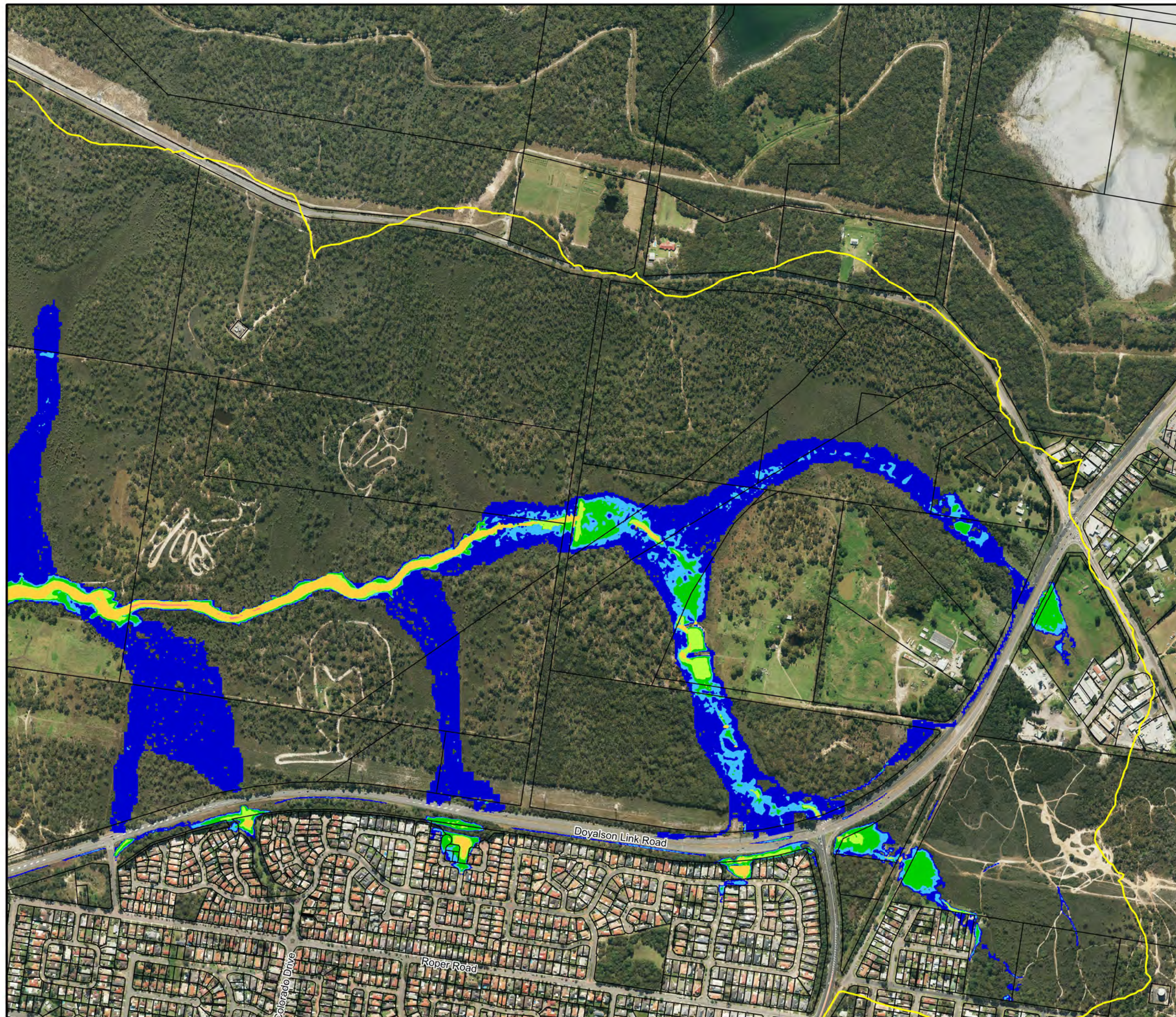
Scale 1:8,000 (at A3)

0 0.2 0.4 Km

**Figure 13.2:
Hazard
Categories for the
1% AEP Flood**

Prepared By:
 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig13.2 - Hazard Categories
for the 1% AEP Flood.wor



LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure




Scale 1:8,000 (at A3)

0 0.2 0.4

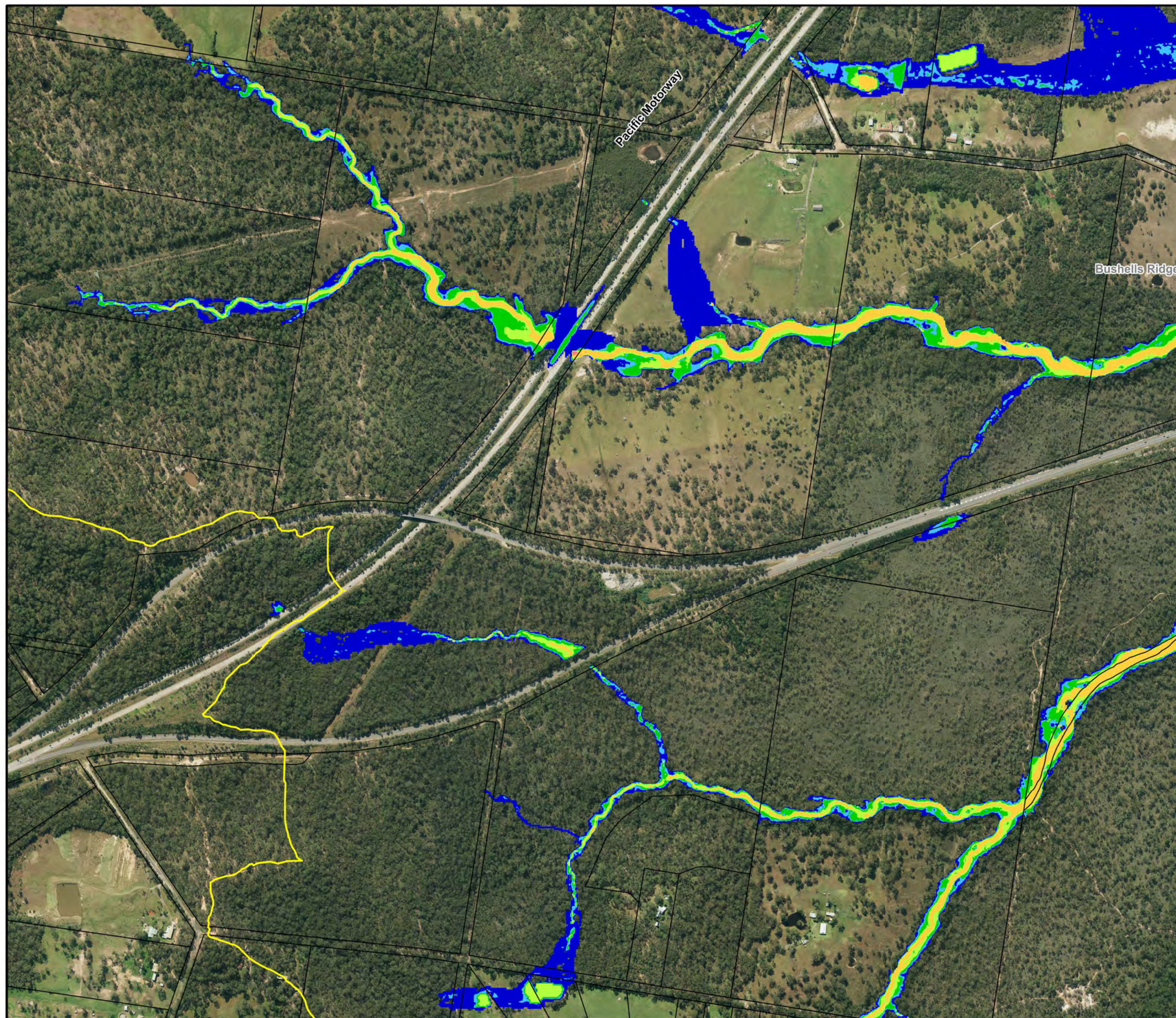
Km

Figure 13.3:
Hazard
Categories for the
1% AEP Flood

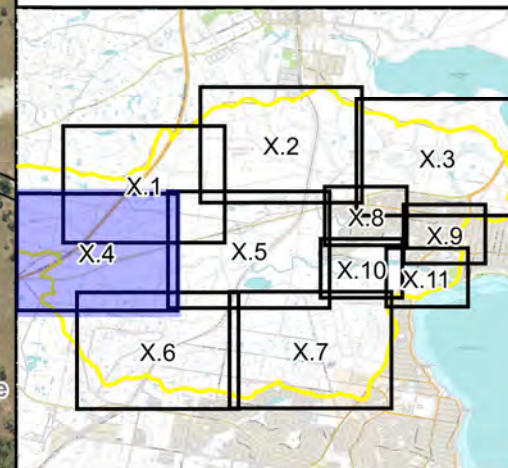
Prepared By:

 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig13.3 - Hazard Categories
for the 1% AEP Flood.wor



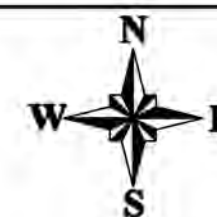
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LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



Scale 1:8,000 (at A3)

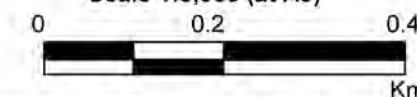

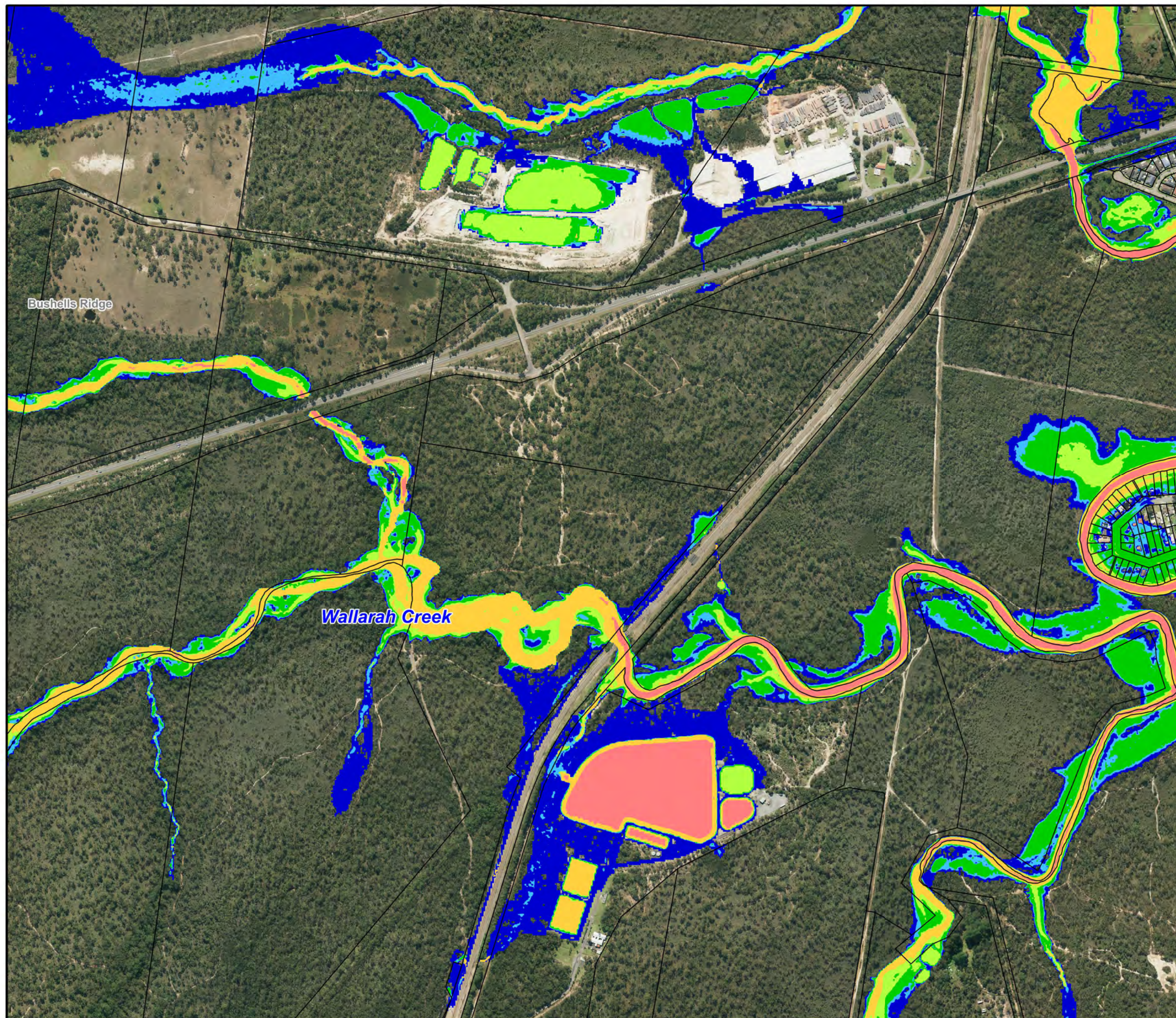


Figure 13.4:
Hazard
Categories for the
1% AEP Flood

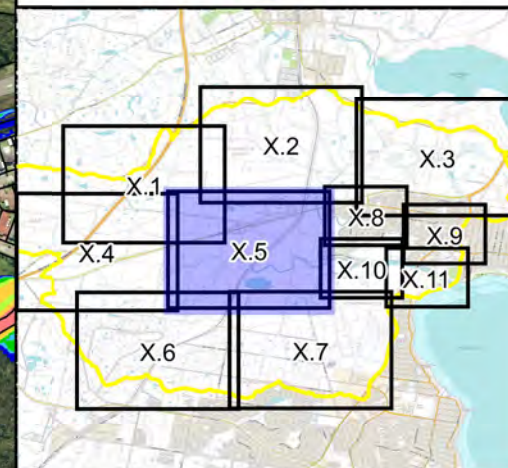
Prepared By:

 **Catchment Simulation Solutions**
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File Name: Fig13.4 - Hazard Categories
for the 1% AEP Flood.wor

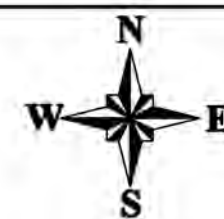


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LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure




Scale 1:8,000 (at A3)

0 0.2 0.4

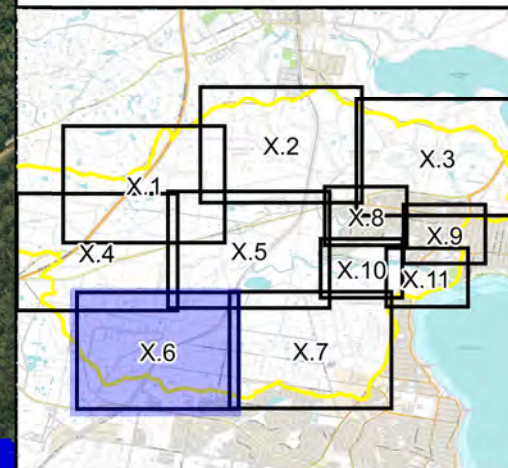
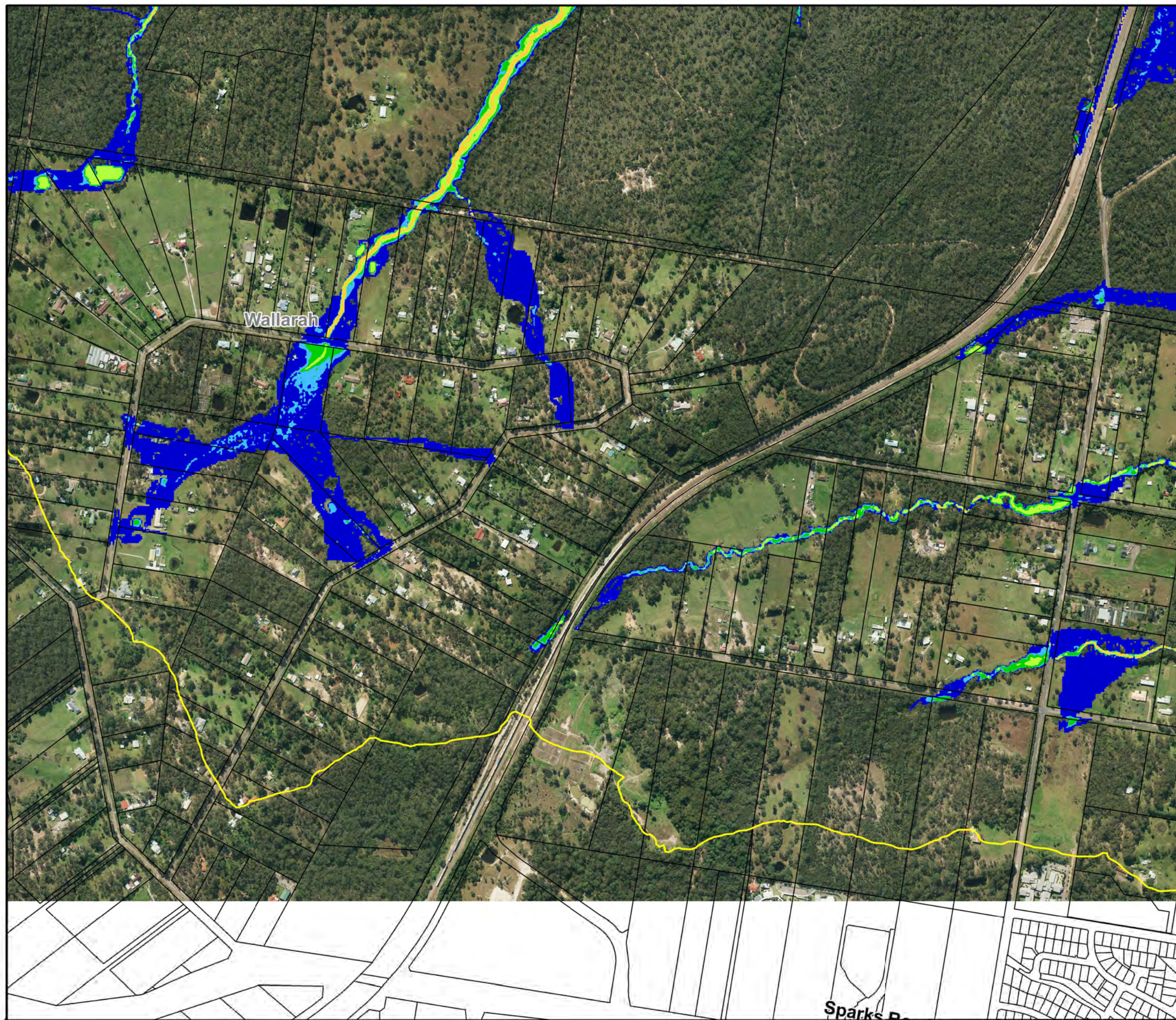
Km

Figure 13.5:
Hazard
Categories for the
1% AEP Flood

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File Name: Fig13.5 - Hazard Categories
for the 1% AEP Flood.wor



LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



Scale 1:8,000 (at A3)

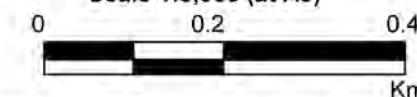
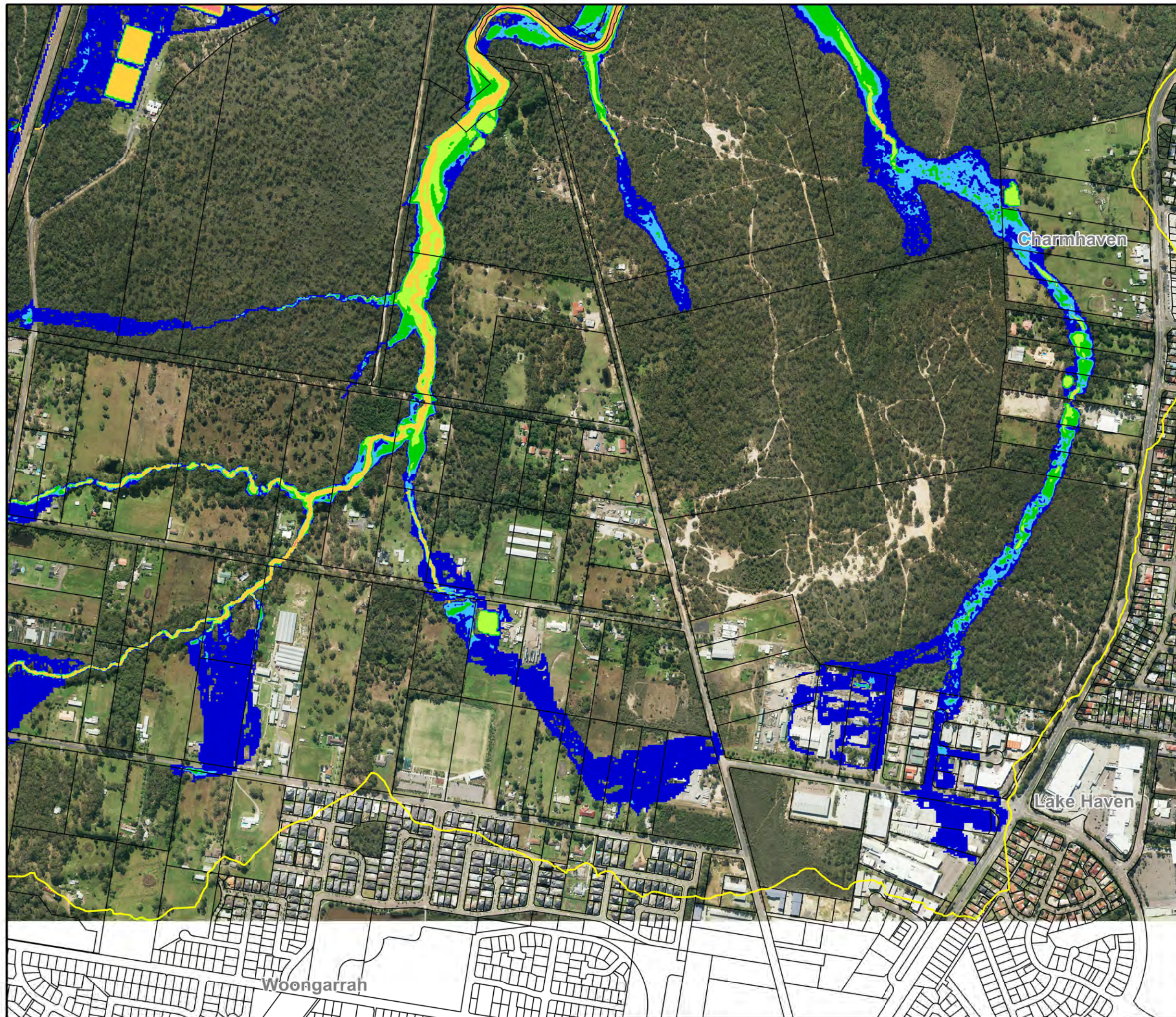


Figure 13.6:
Hazard
Categories for the
1% AEP Flood

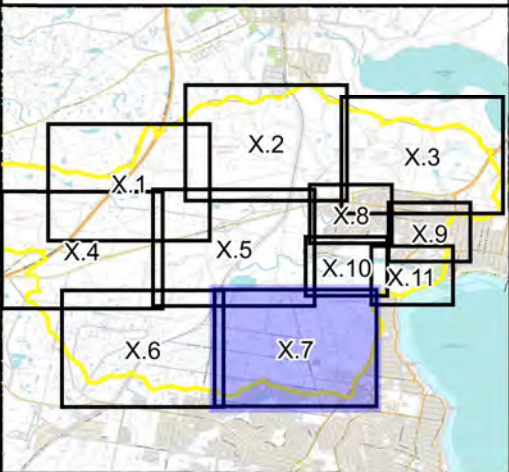
Prepared By:

CatchmentSimulationSolutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.6 - Hazard Categories
for the 1% AEP Flood.wor



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LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

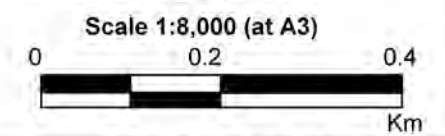

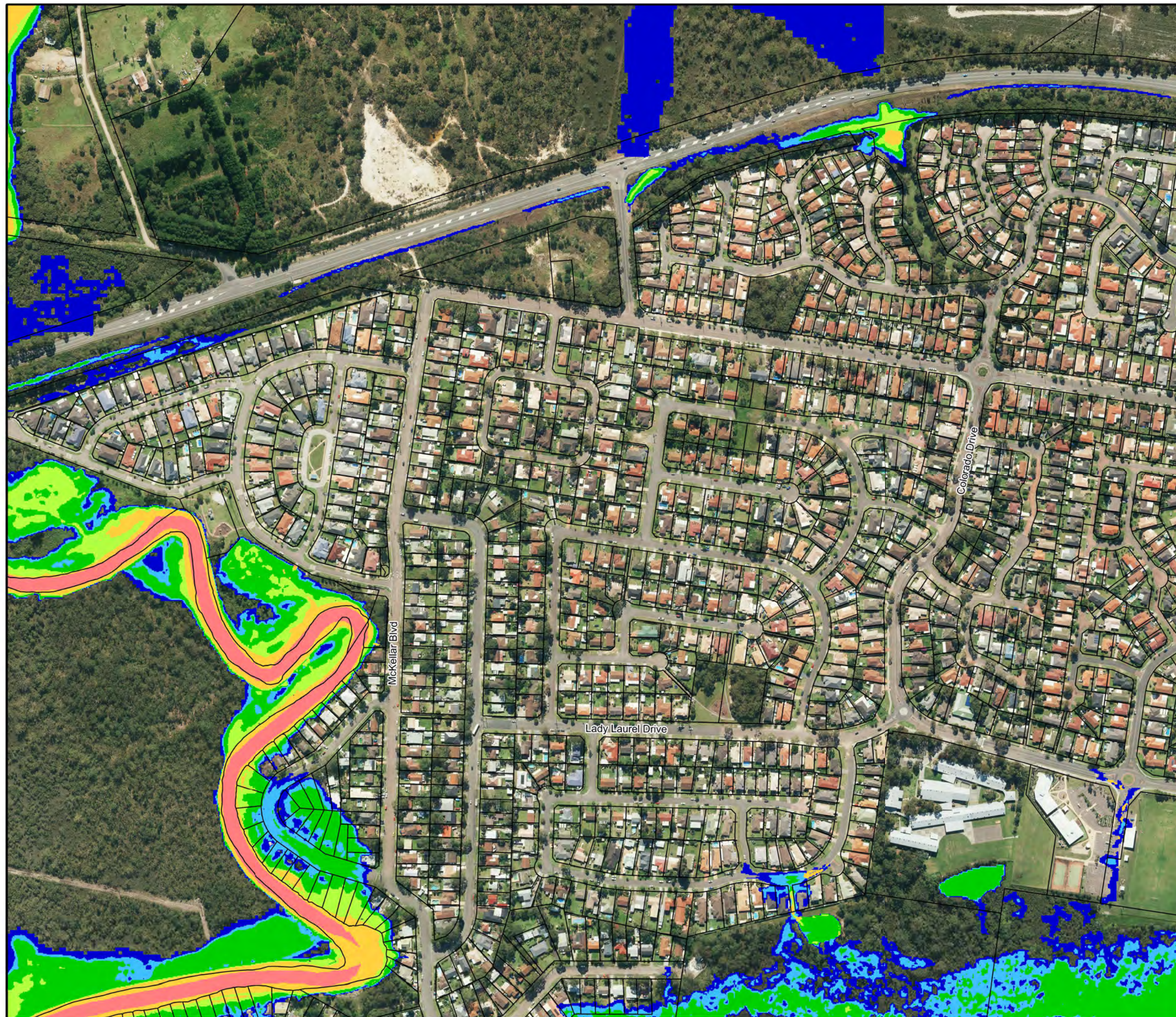
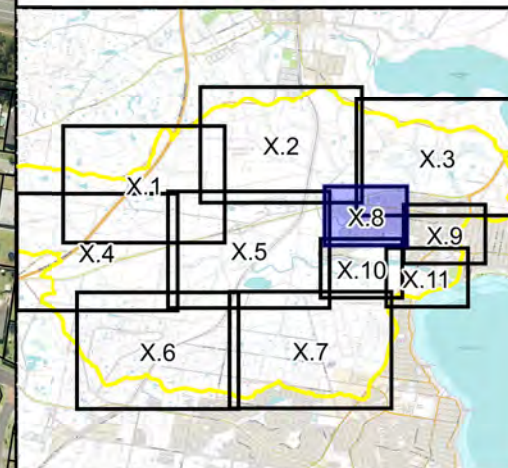


Figure 13.7:
Hazard
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000
File Name: Fig13.7 - Hazard Categories
for the 1% AEP Flood.wor



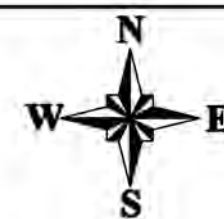
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LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



Scale 1:4,000 (at A3)

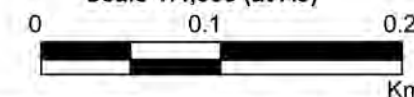
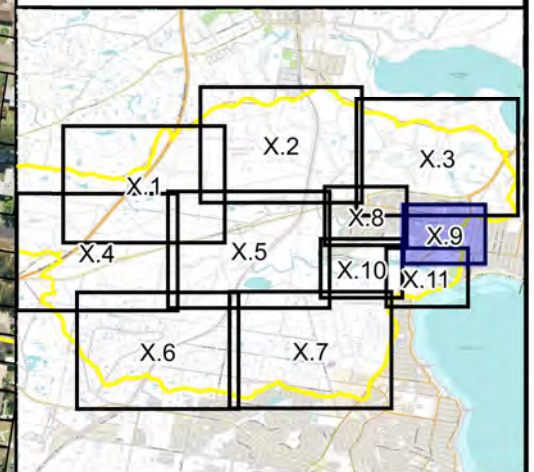


Figure 13.8:
Hazard
Categories for the
1% AEP Flood

Prepared By:

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Sydney, NSW 2000

File Name: Fig13.8 - Hazard Categories
for the 1% AEP Flood.wor



LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

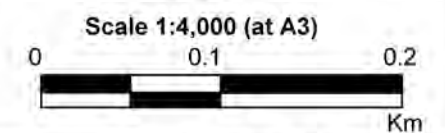

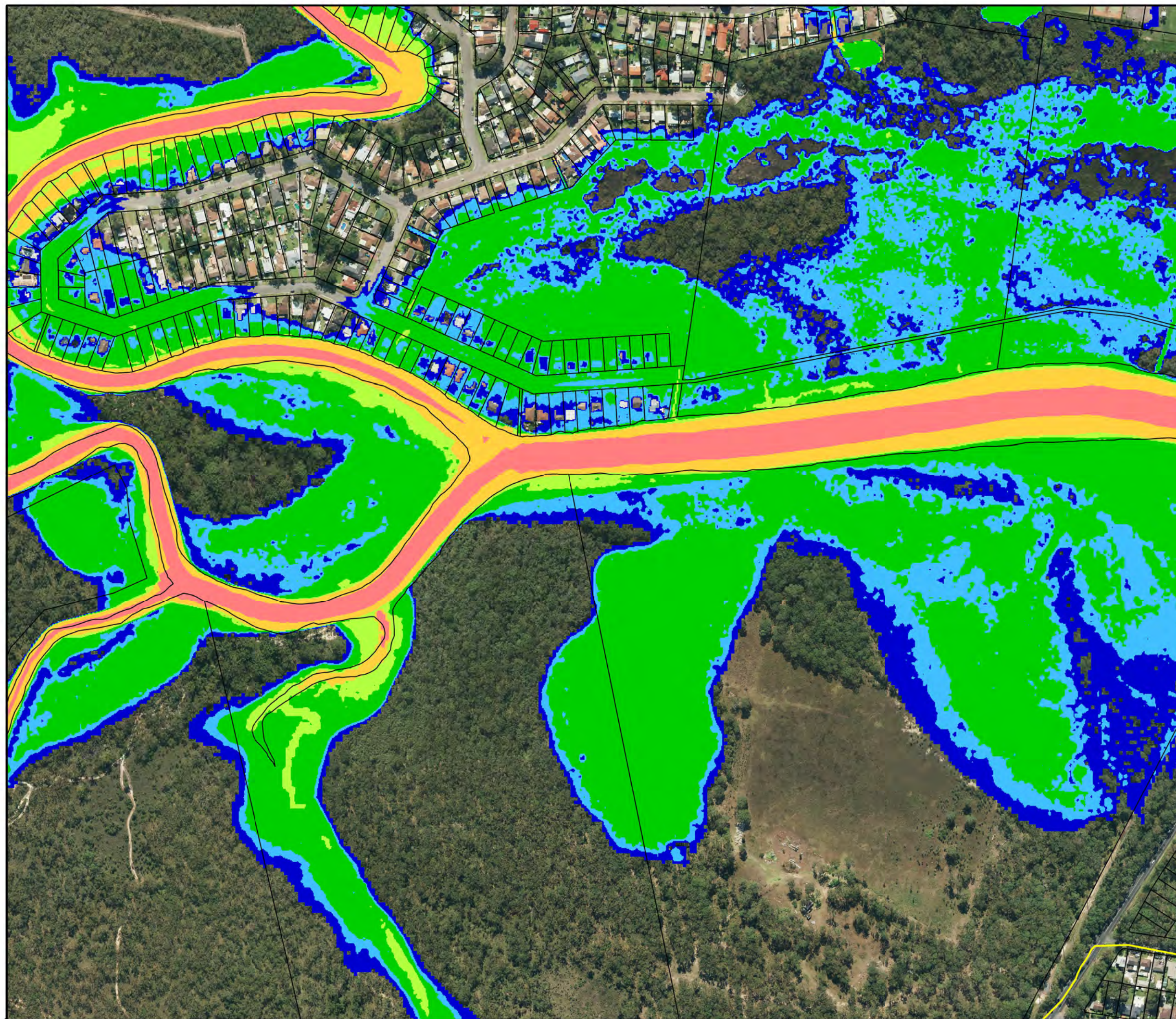


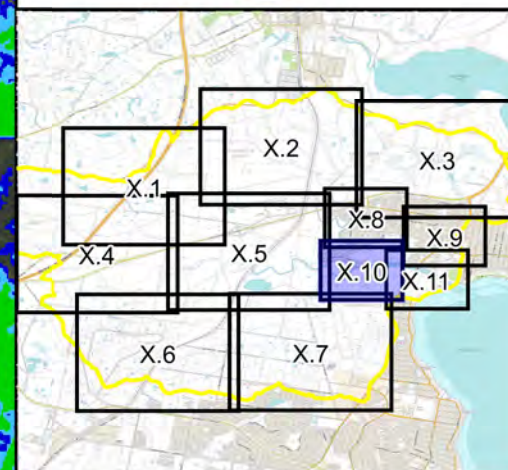
Figure 13.9:
Hazard
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.9 - Hazard Categories
for the 1% AEP Flood.wor



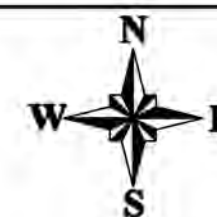
Central
Coast
Council



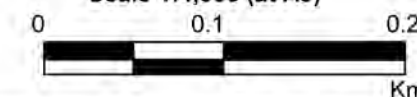
LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure




Scale 1:4,000 (at A3)

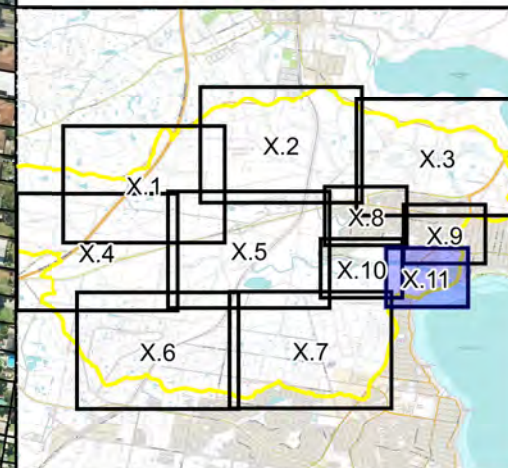
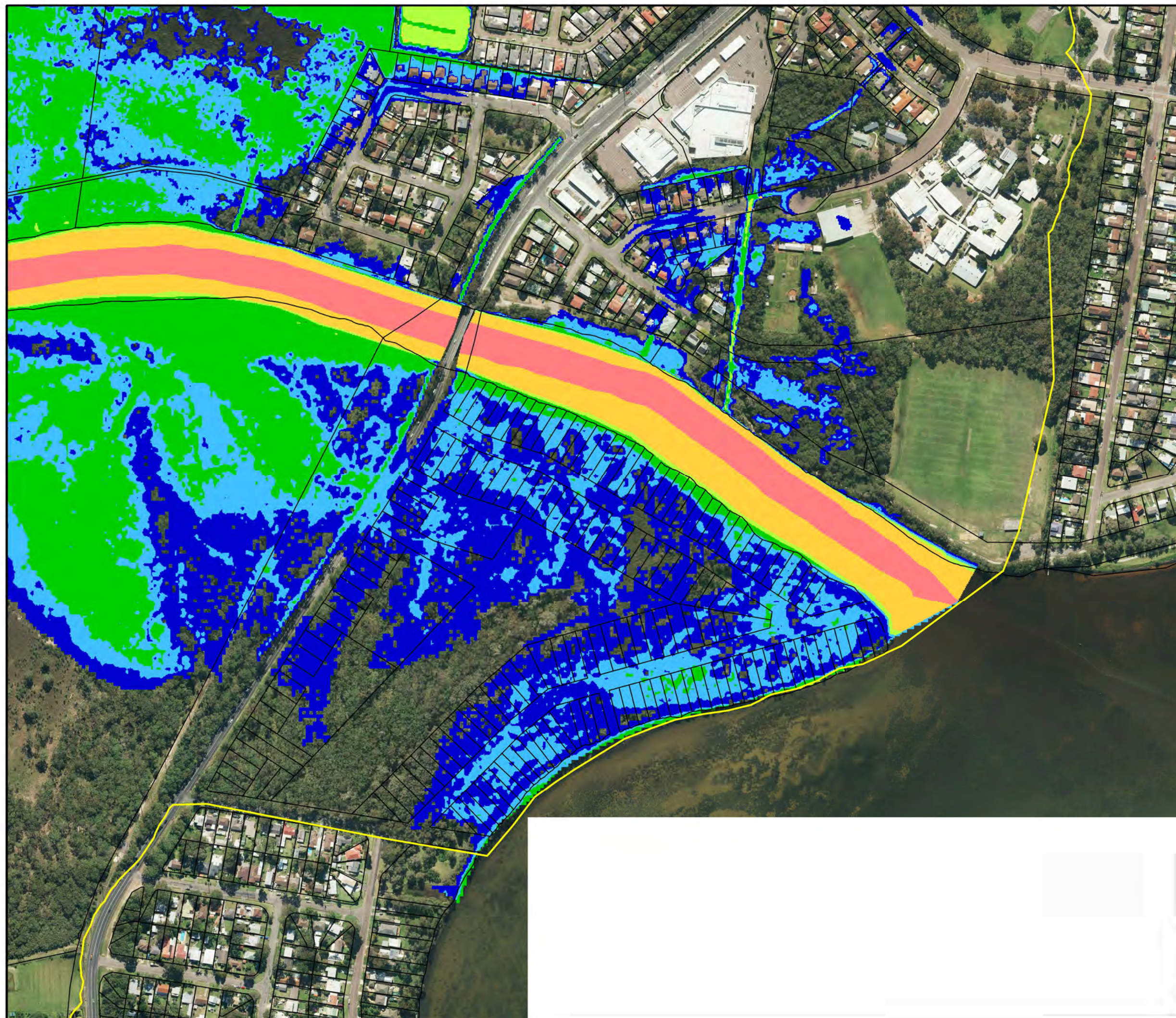


**Figure 13.10:
Hazard
Categories for the
1% AEP Flood**

Prepared By:

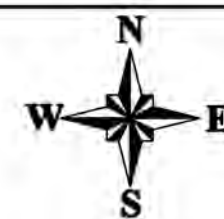
 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig13.10 - Hazard Categories
for the 1% AEP Flood.wor



LEGEND


- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



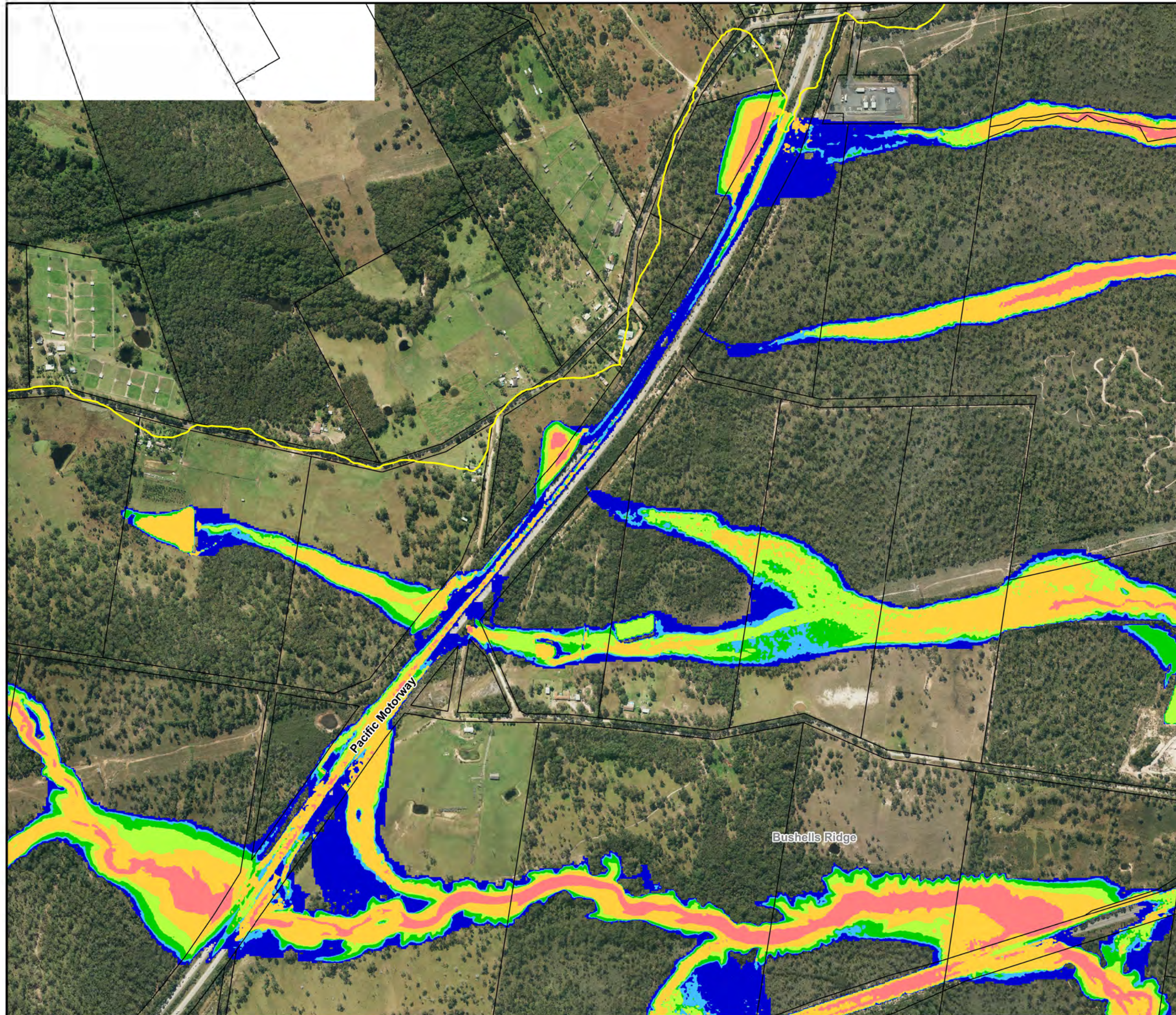
Scale 1:4,000 (at A3)

0 0.1 0.2 Km

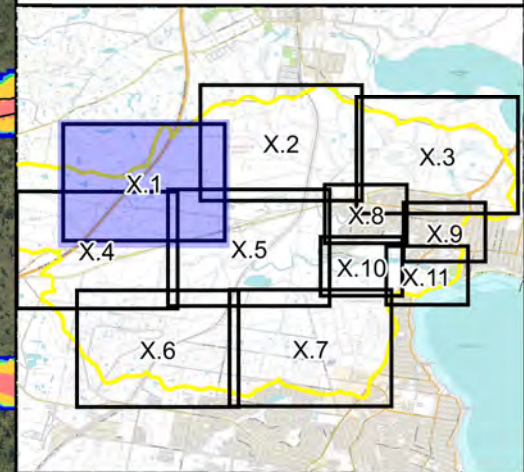
**Figure 13.11:
Hazard
Categories for the
1% AEP Flood**

Prepared By:
 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig13.11 - Hazard Categories
for the 1% AEP Flood.wor



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LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

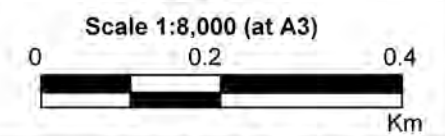

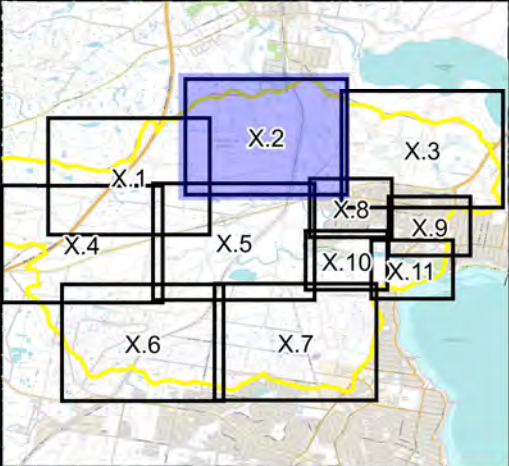
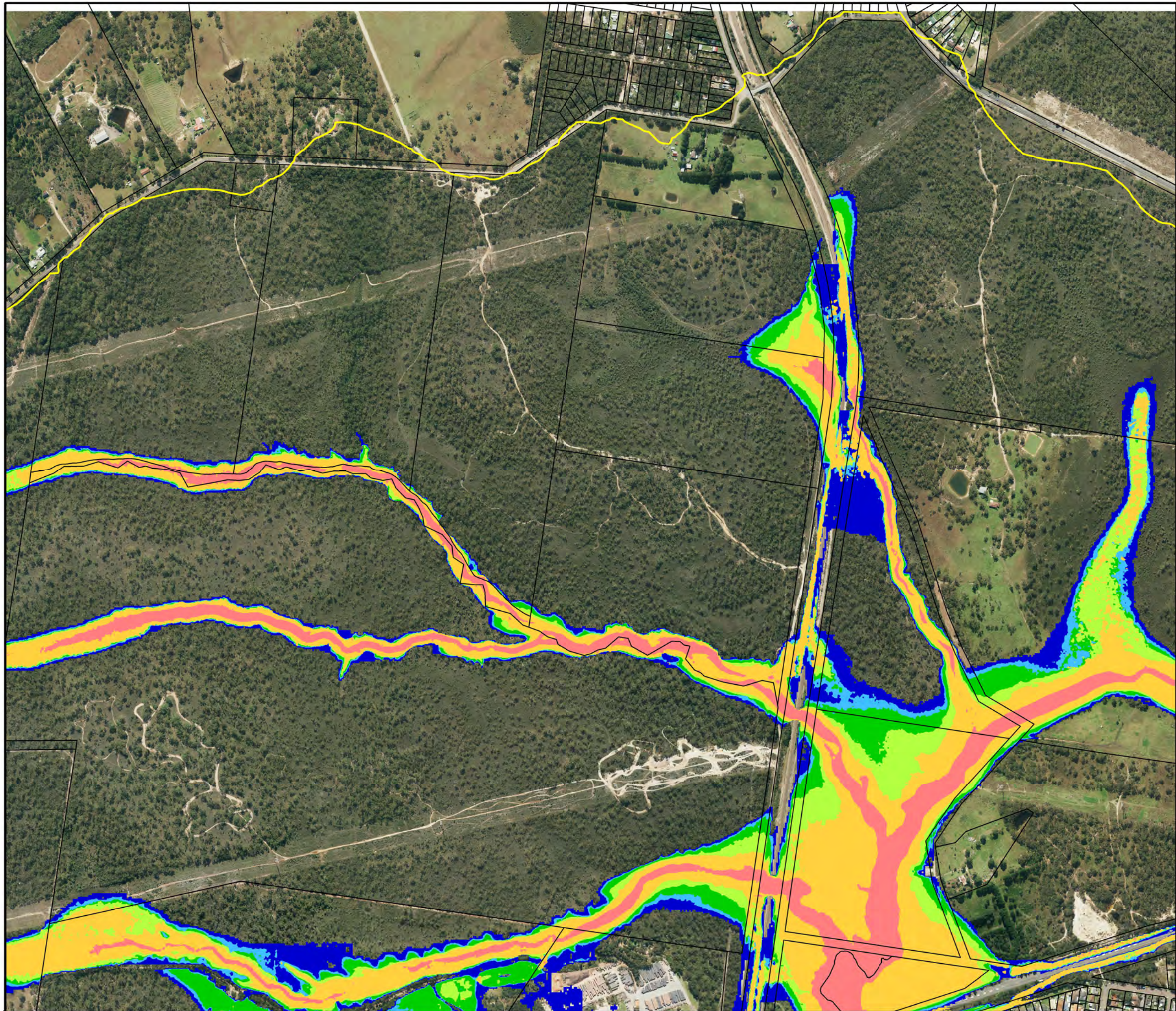


Figure 14.1:
Hazard
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.1 - Hazard Categories
for the PMF.wor



LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

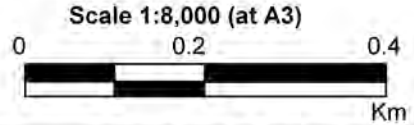

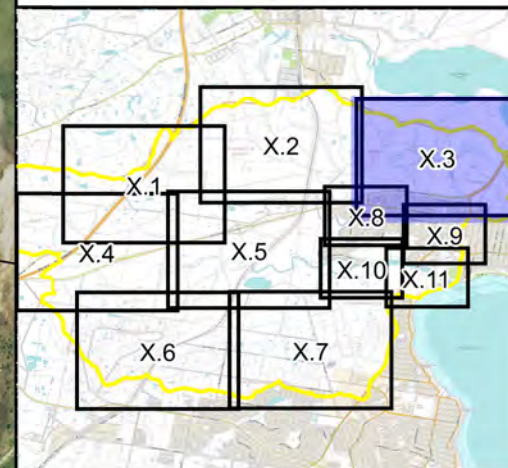
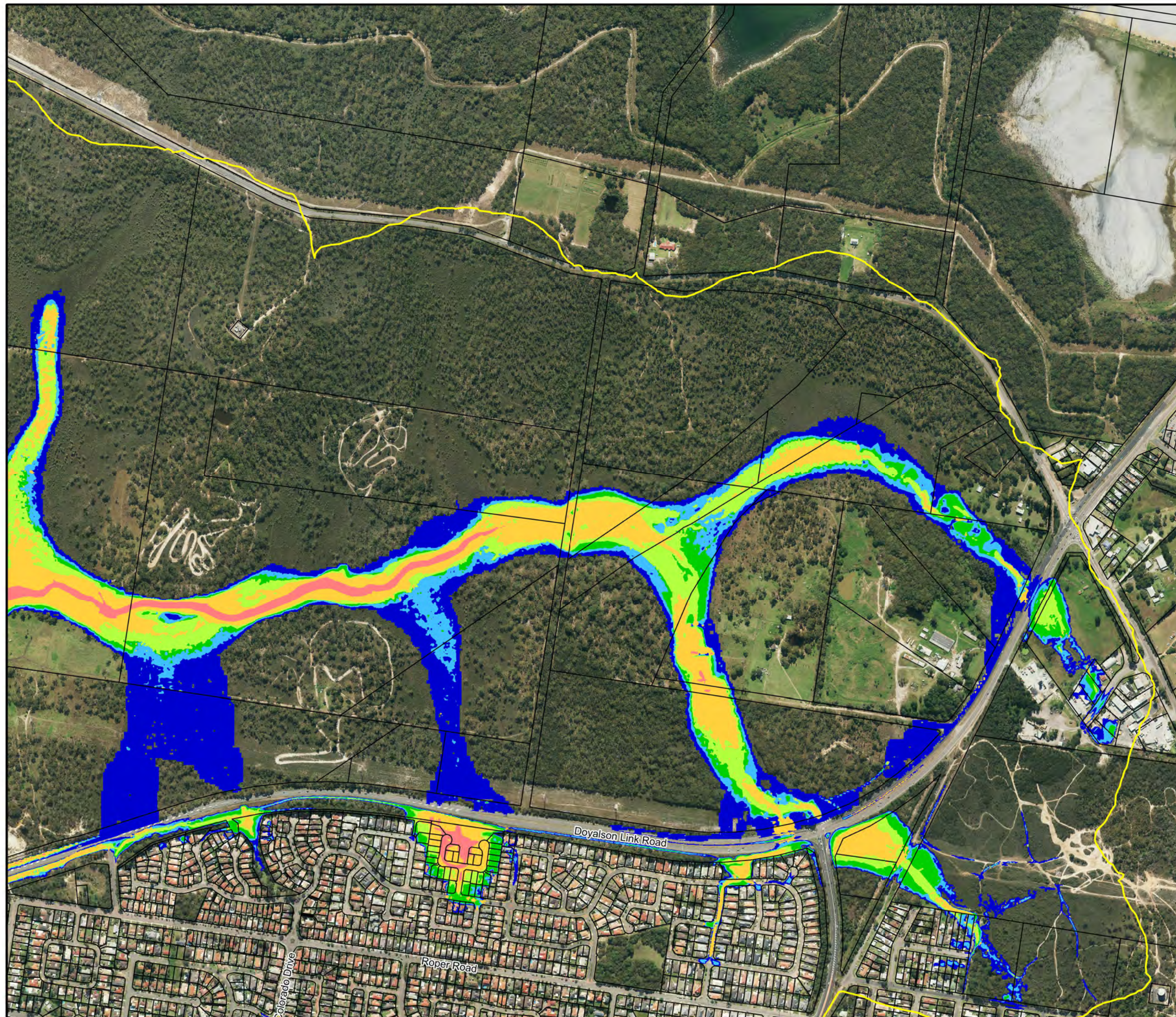


Figure 14.2:
Hazard
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.2 - Hazard Categories
for the PMF.wor



LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



Scale 1:8,000 (at A3)

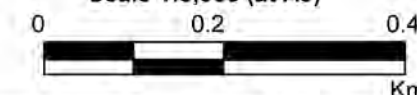
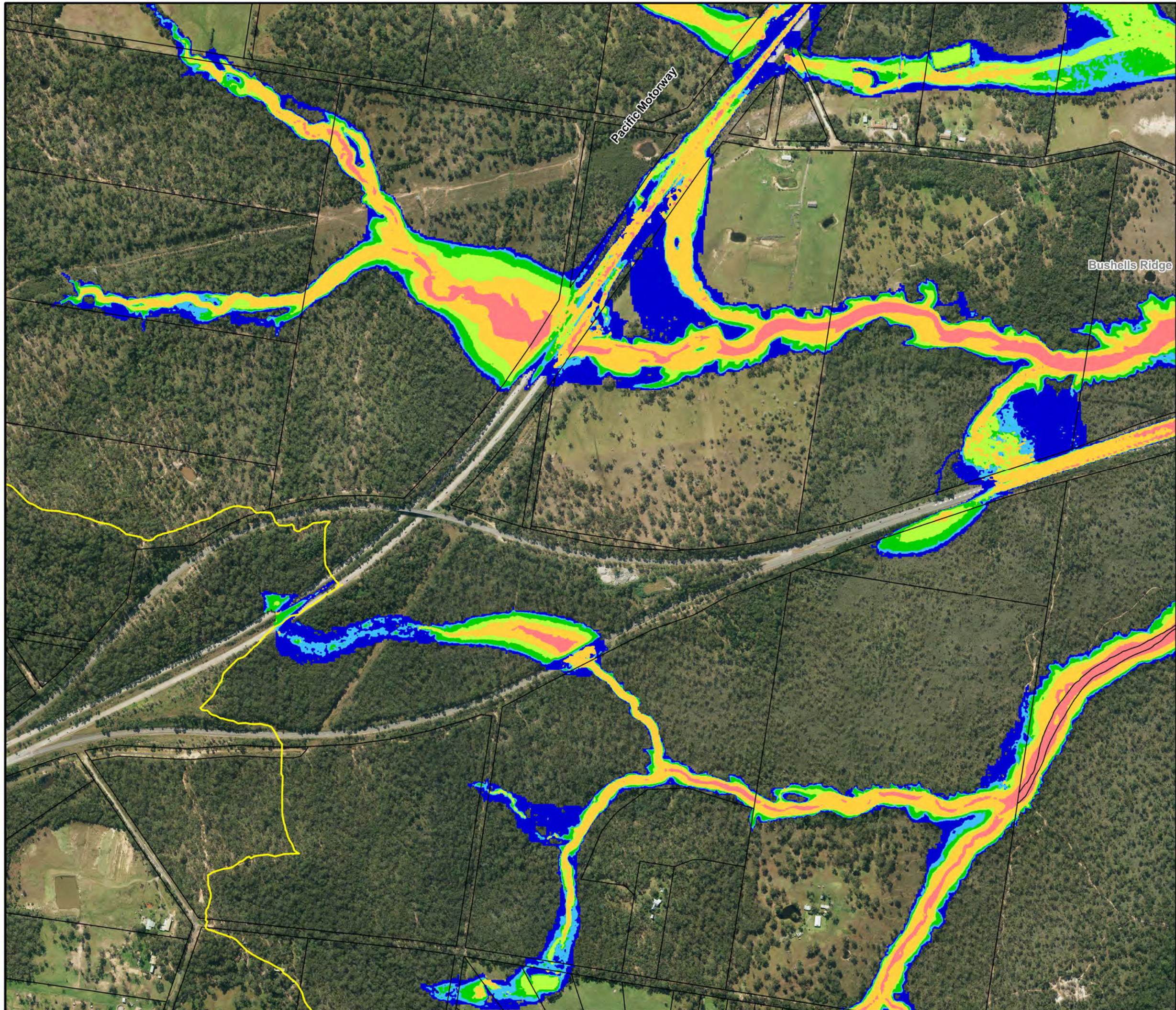


Figure 14.3:
Hazard
Categories for the
PMF

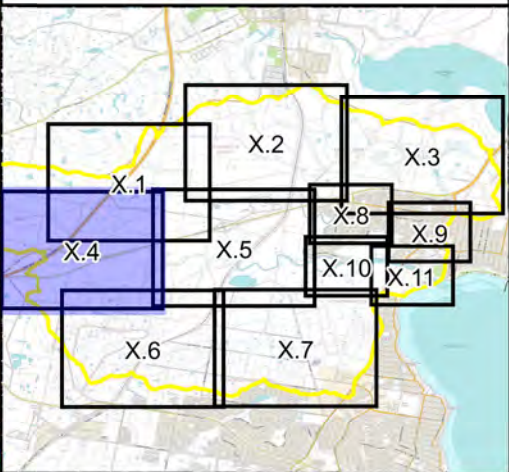
Prepared By:

CatchmentSimulationSolutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.3 - Hazard Categories
for the PMF.wor



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LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

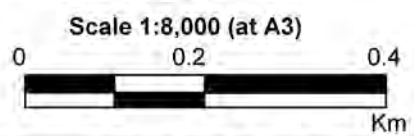

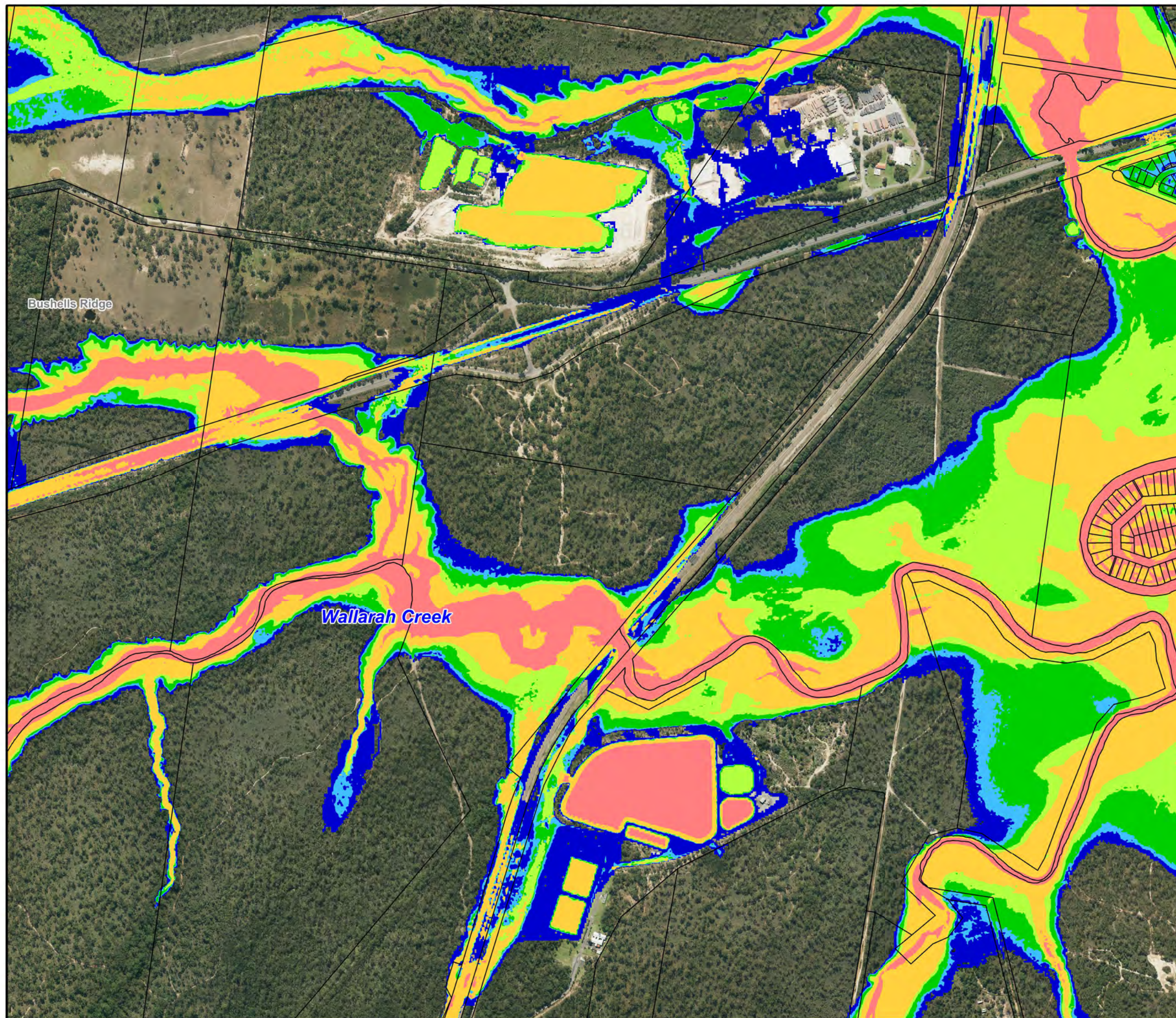


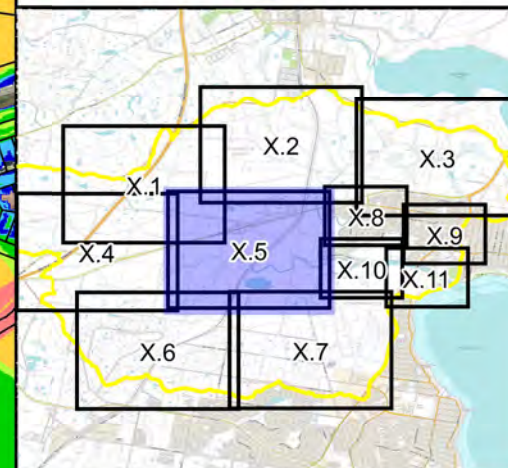
Figure 14.4:
Hazard
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.4 - Hazard Categories
for the PMF.wor



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LEGEND

Hazard Category

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles
Buildings require special design
- H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



Scale 1:8,000 (at A3)

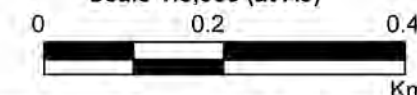

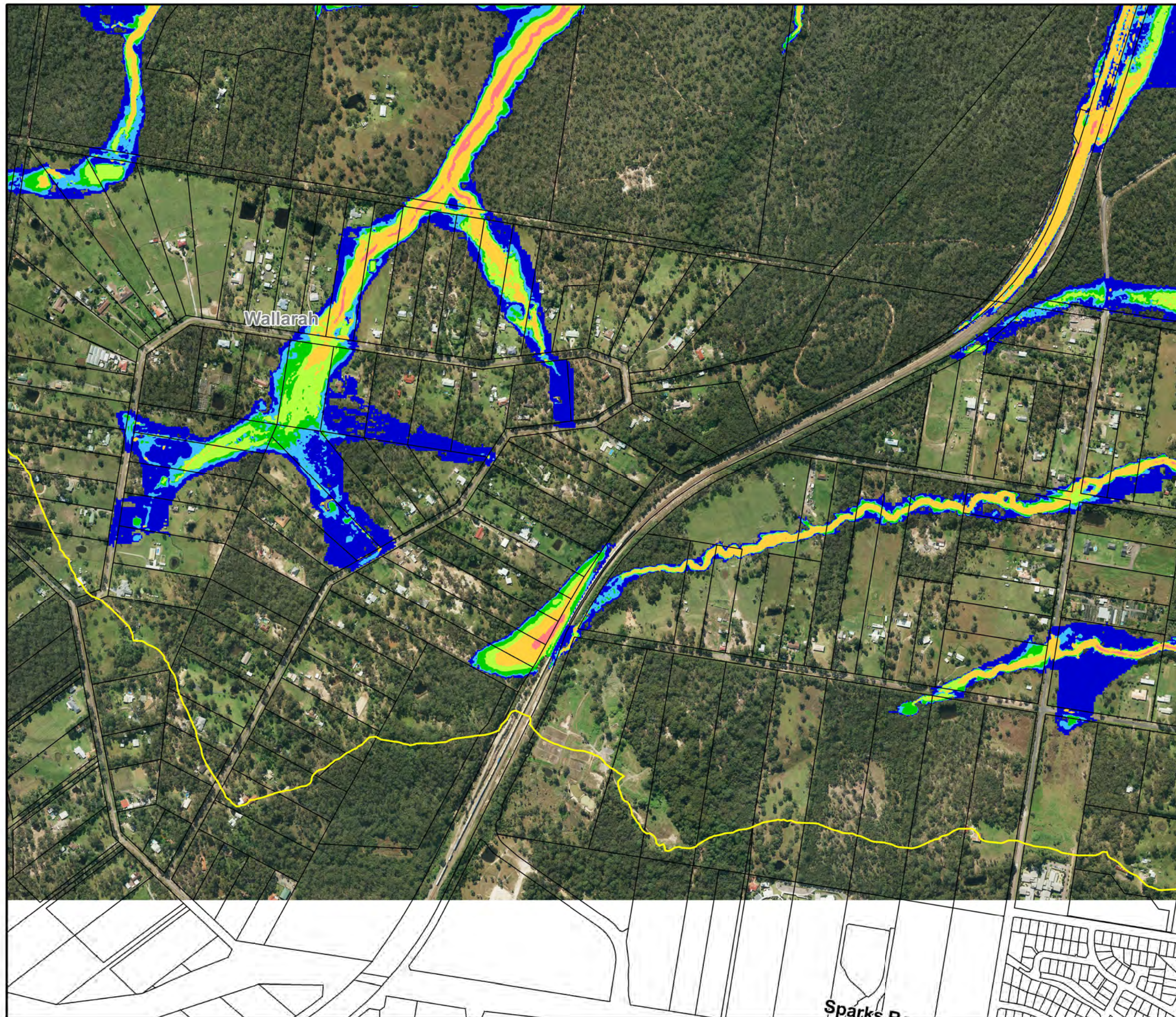


Figure 14.5:
Hazard
Categories for the
PMF

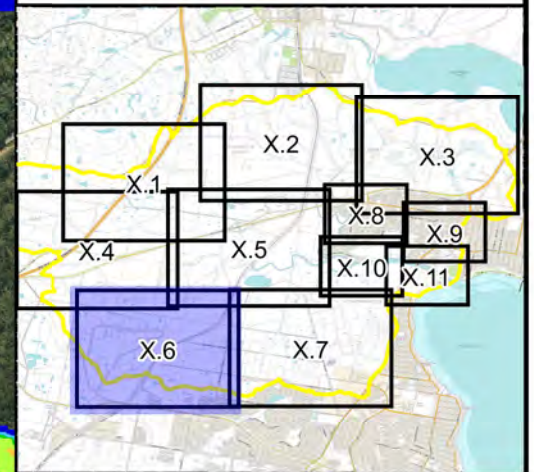
Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.5 - Hazard Categories
for the PMF.wor



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LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

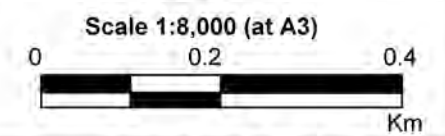
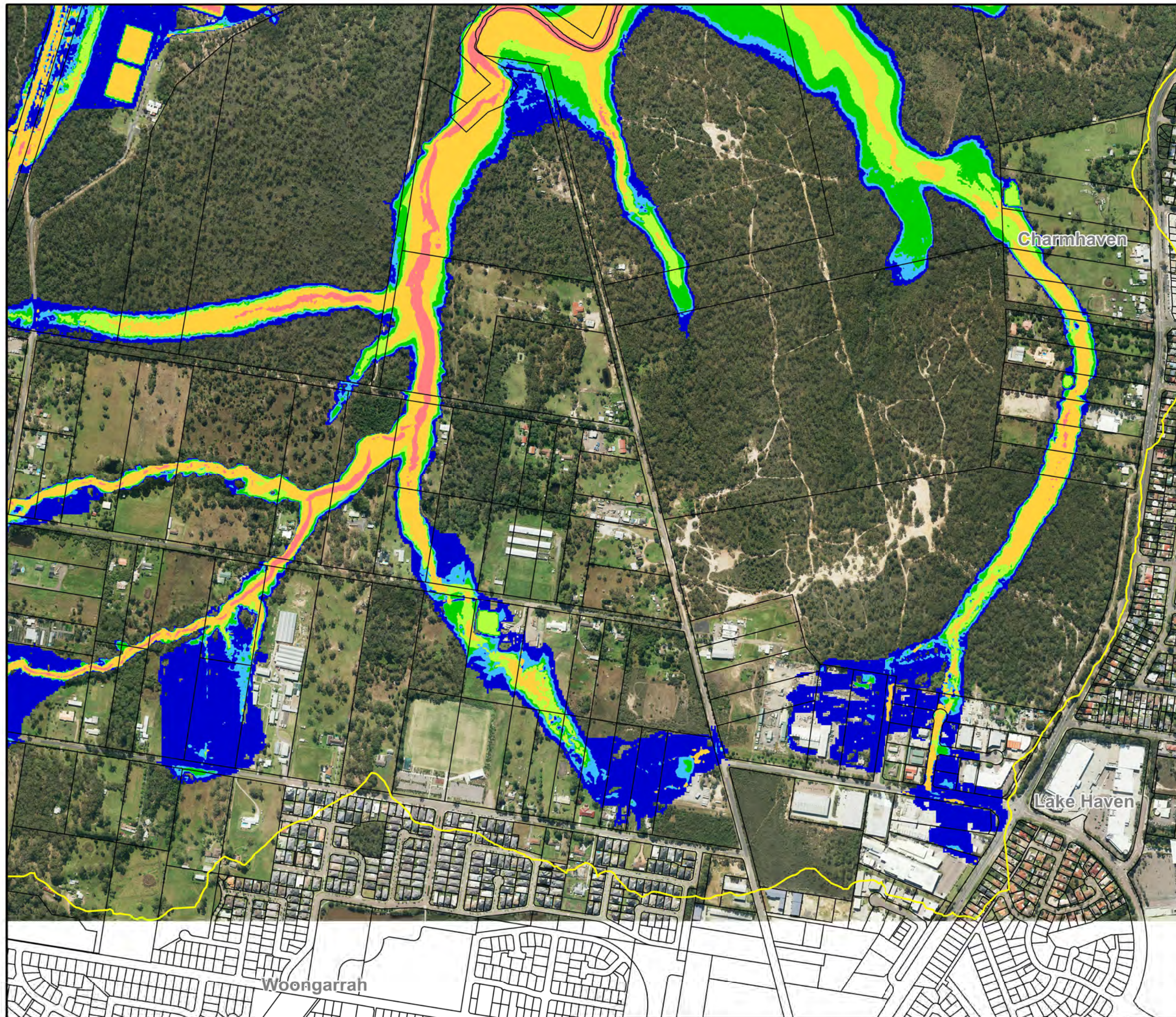
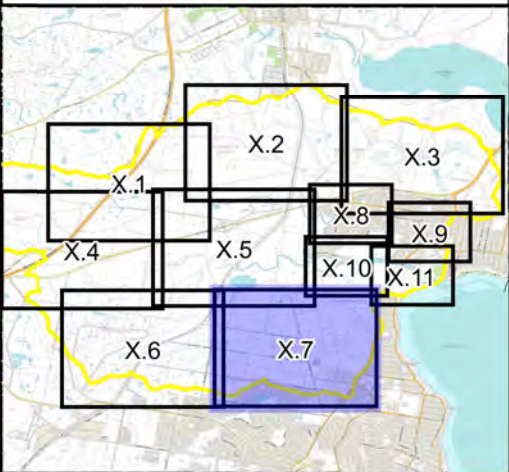


Figure 14.6:
Hazard
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000
File Name: Fig14.6 - Hazard Categories
for the PMF.wor



Central Coast Council



LEGEND


- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



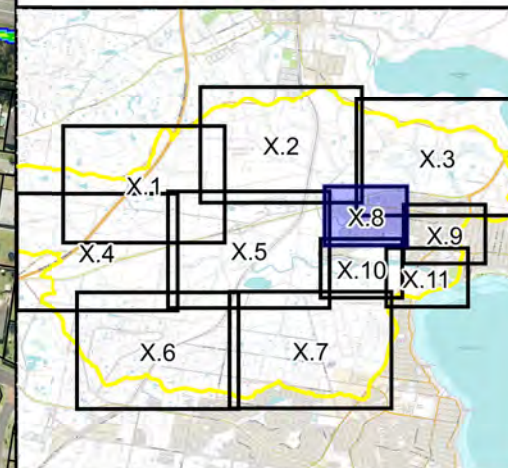
Scale 1:8,000 (at A3)

0 0.2 0.4 Km

Figure 14.7:
Hazard
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.7 - Hazard Categories
for the PMF.wor



LEGEND


- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure



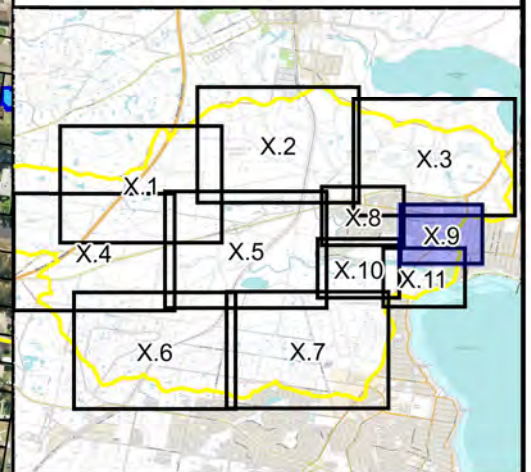
Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 14.8:
Hazard
Categories for the
PMF

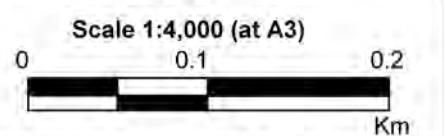
Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.8 - Hazard Categories
for the PMF.wor




LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure

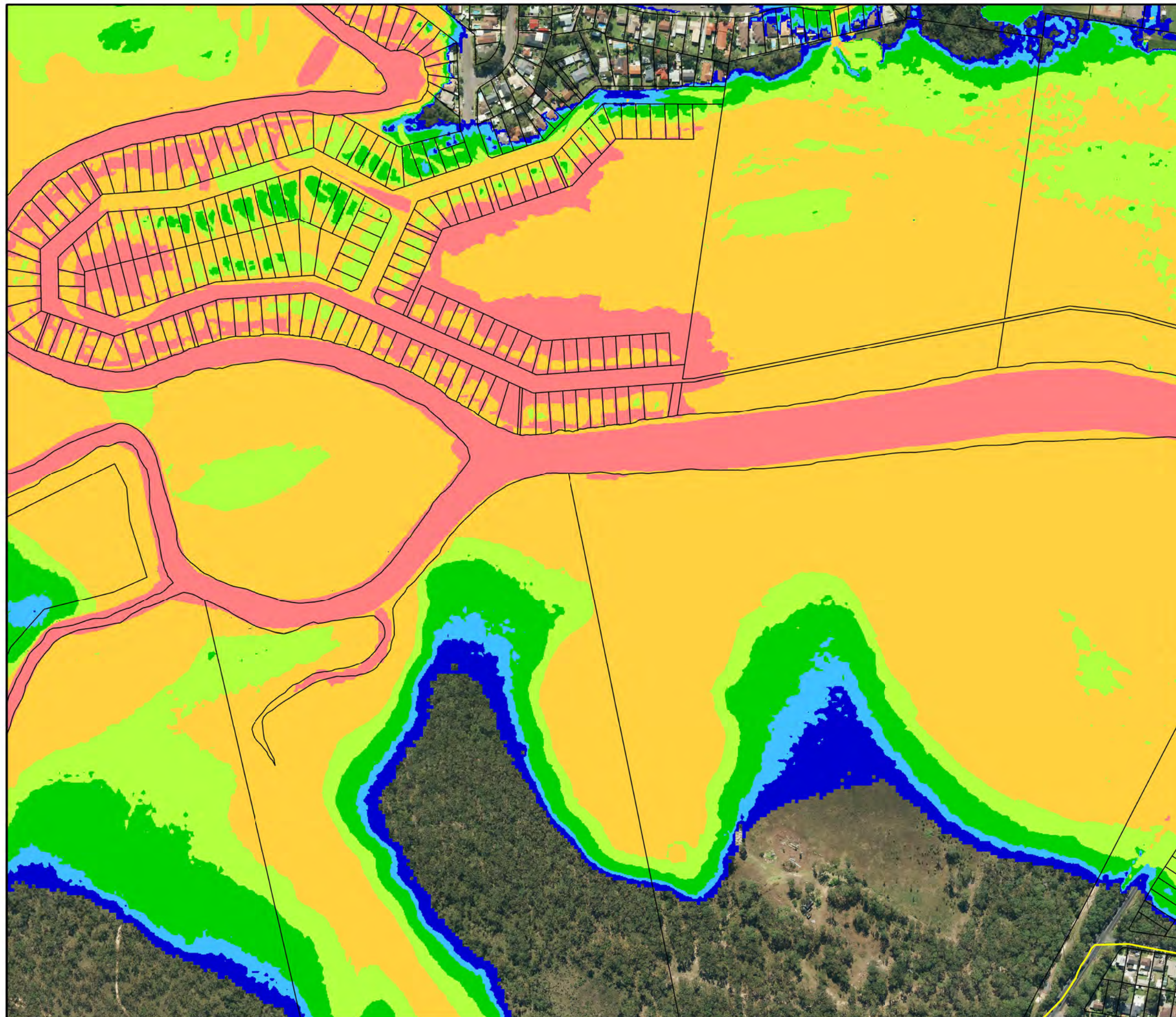


**Figure 14.9:
Hazard
Categories for the
PMF**

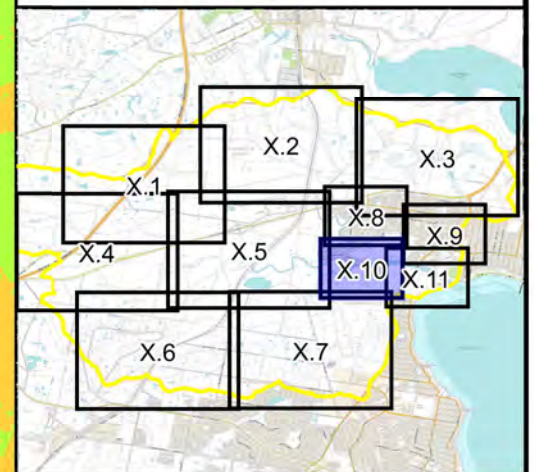
Prepared By:
 **Catchment Simulation Solutions**
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Fig14.9 - Hazard Categories
for the PMF.wor





Central
Coast
Council



LEGEND

- Hazard Category
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure




Scale 1:4,000 (at A3)

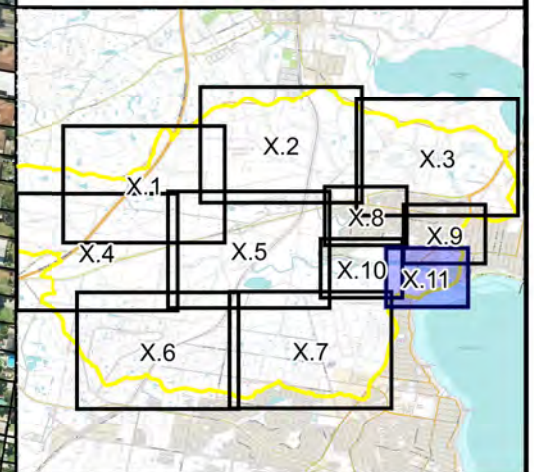
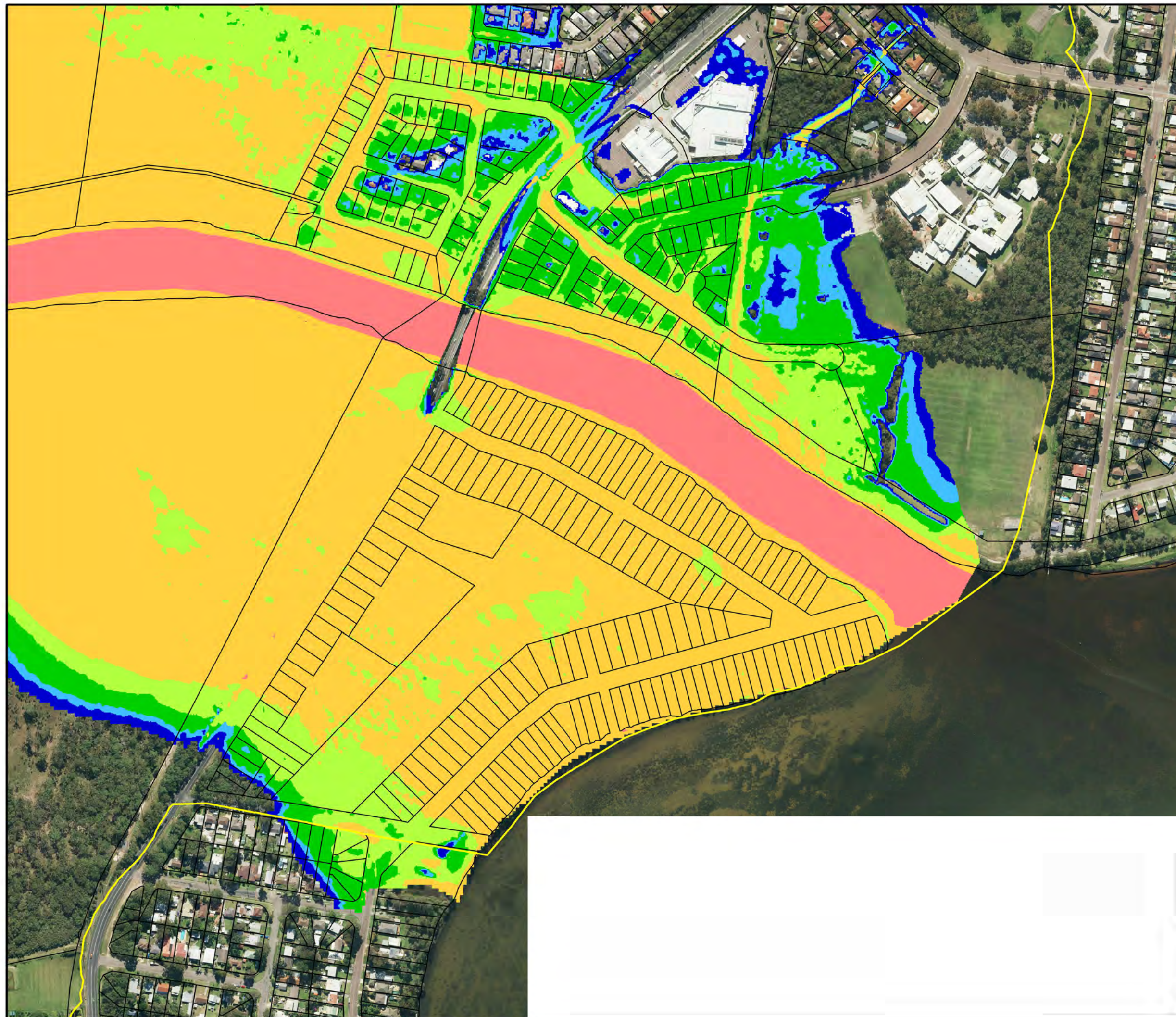
0 0.1 0.2 Km

Figure 14.10:
Hazard
Categories for the
PMF

Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.10 - Hazard Categories
for the PMF.wor



LEGEND

- Hazard Category**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles
Buildings require special design
 - H6 - Unsafe for people and vehicles
All buildings vulnerable to failure




Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 14.11:
Hazard
Categories for the
PMF

Prepared By:

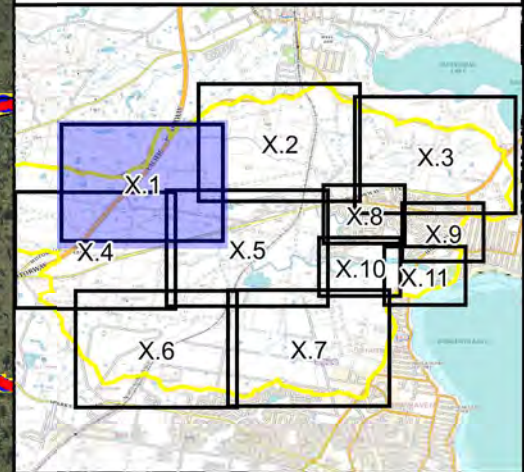
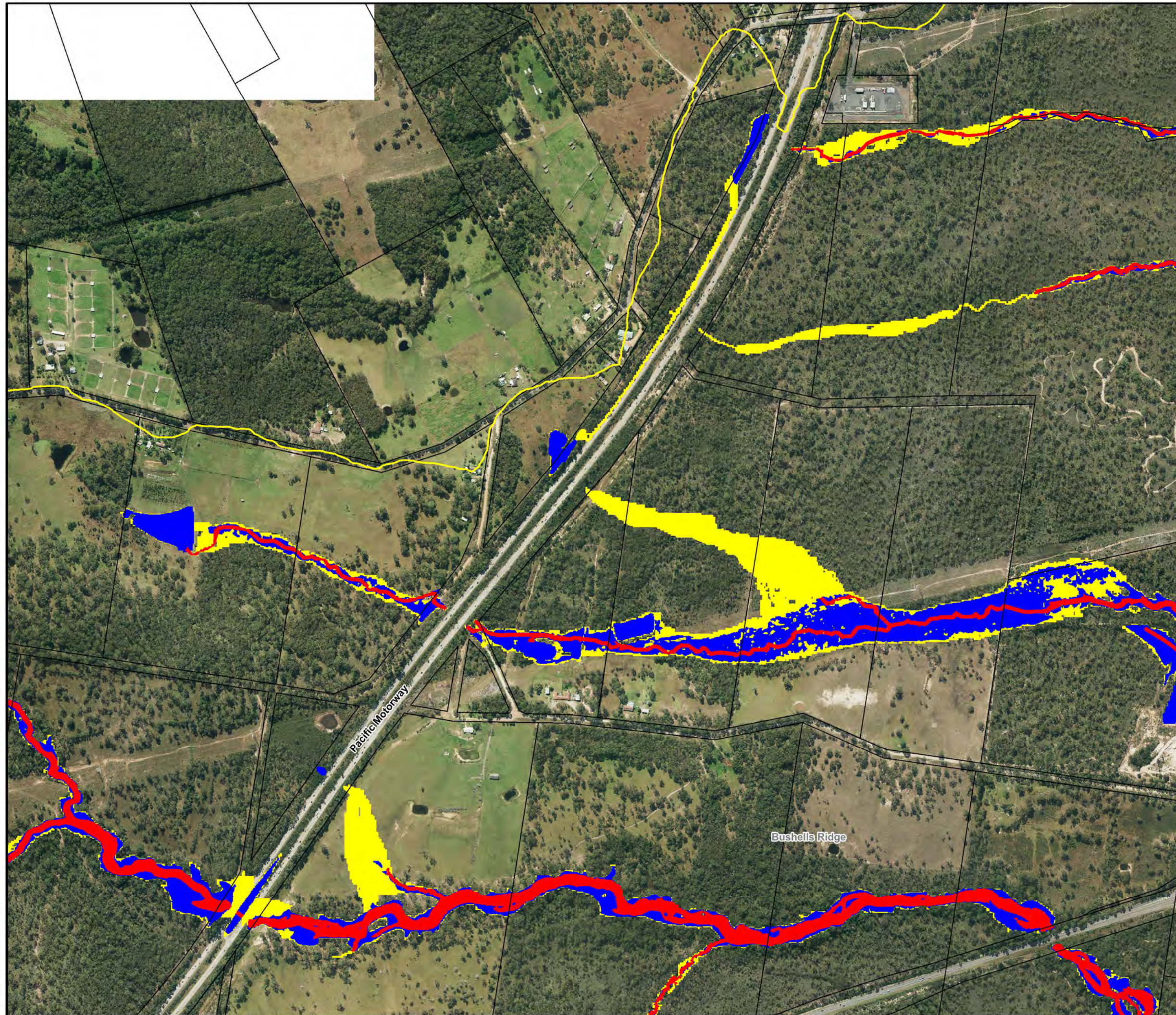
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.11 - Hazard Categories for the PMF.wor



HYDRAULIC CATEGORY MAPS





LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

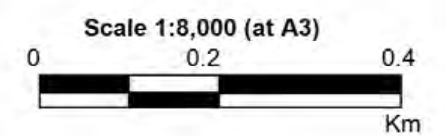
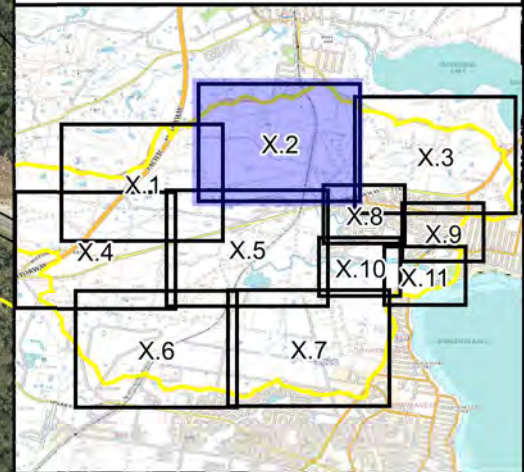
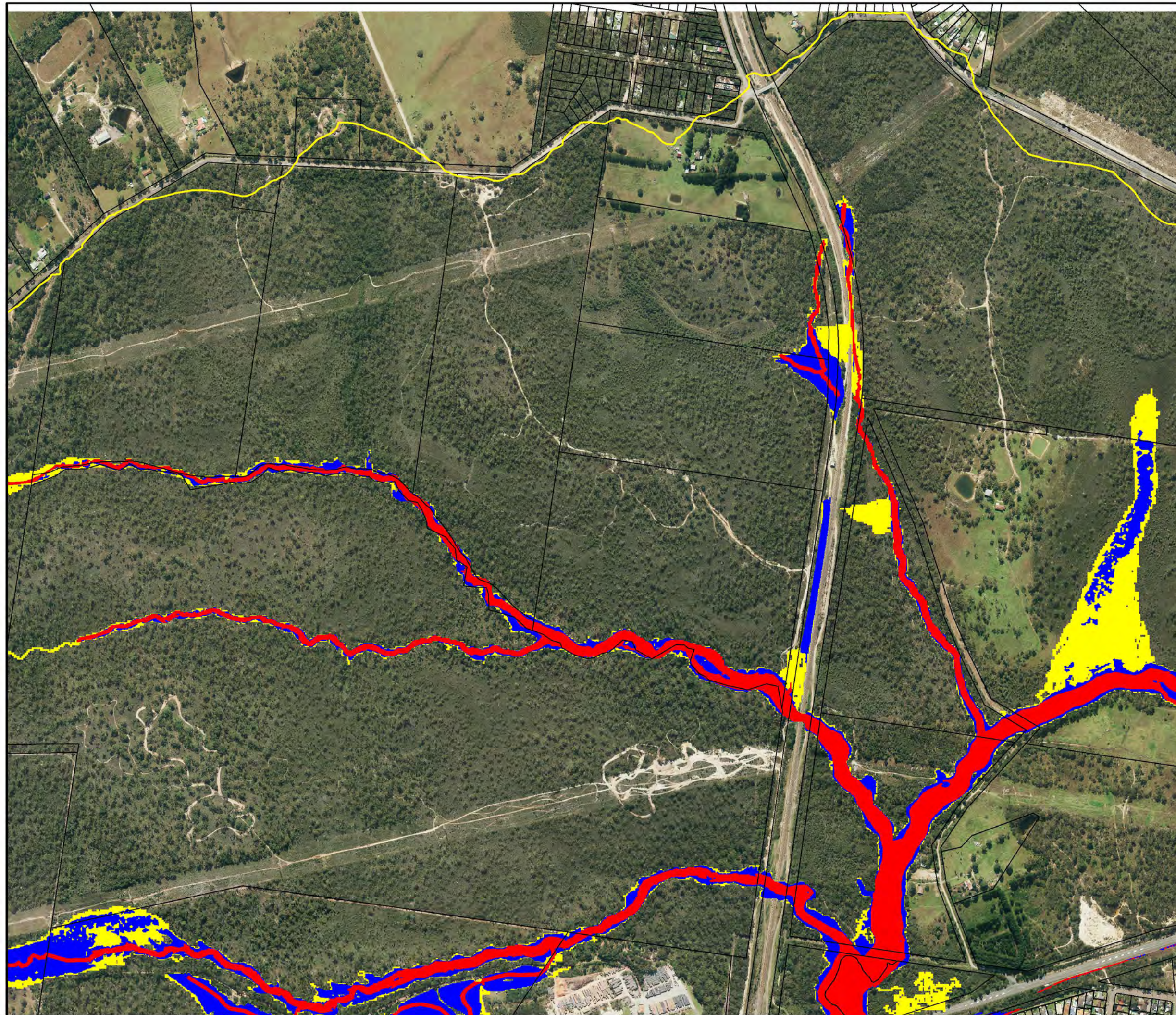


Figure 15.1:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

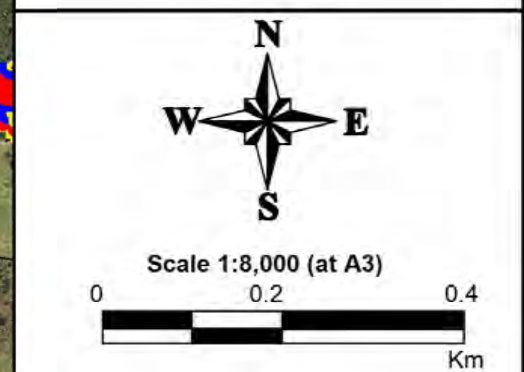
File Name: Fig15.1 - Hydraulic Categories
for the 1% AEP Flood.wor

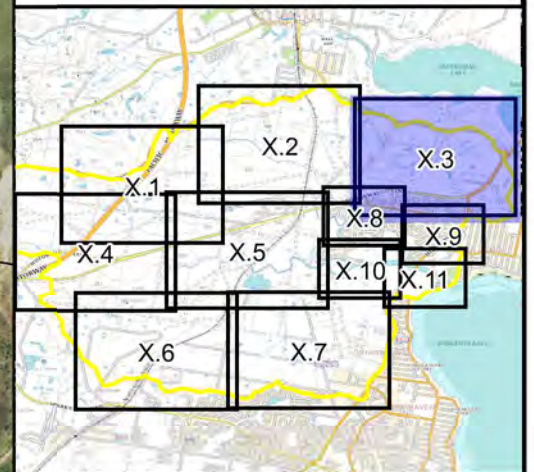
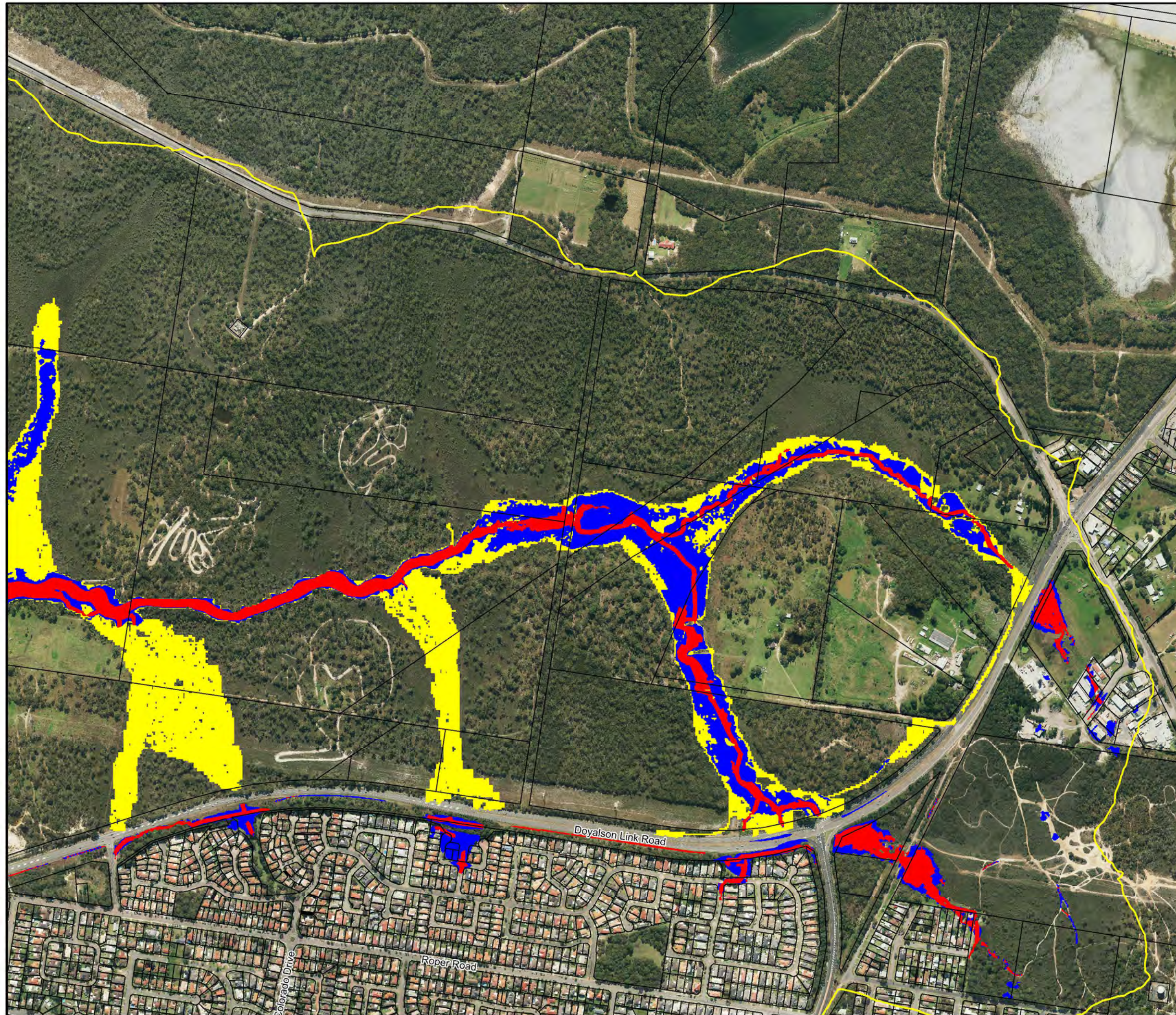


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway





LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway




Scale 1:8,000 (at A3)

0 0.2 0.4

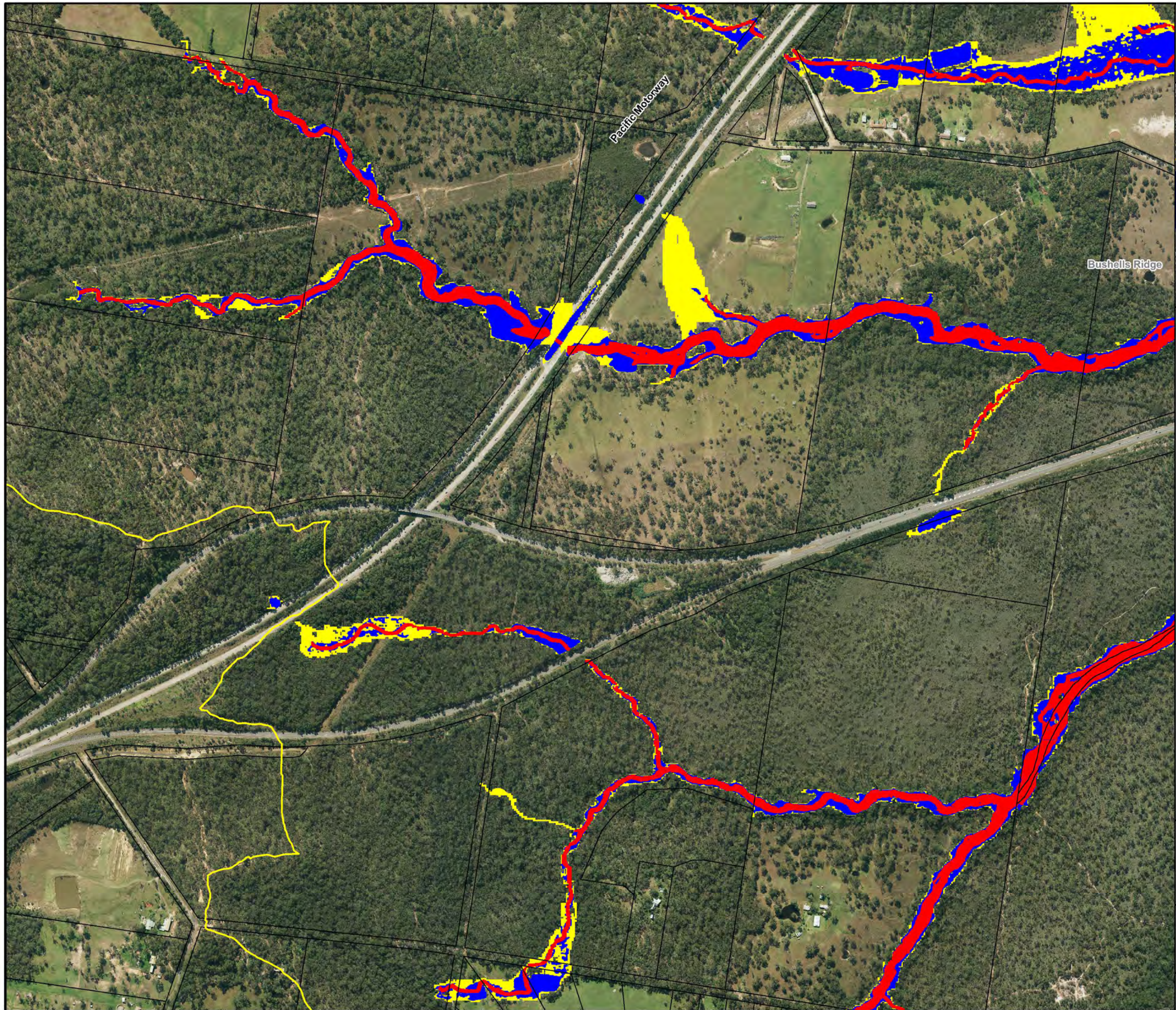
Km

Figure 15.3:
Hydraulic
Categories for the
1% AEP Flood

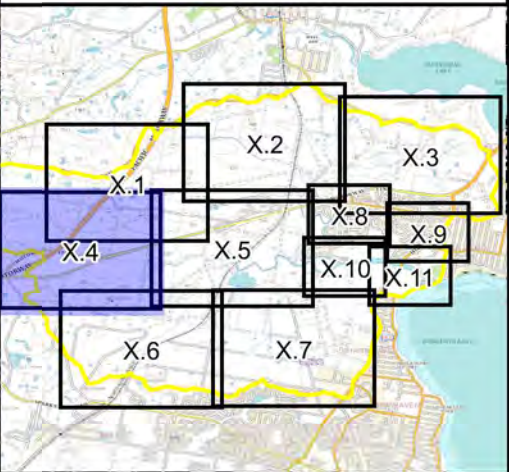
Prepared By:

 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig15.3 - Hydraulic Categories
for the 1% AEP Flood.wor



Central
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LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

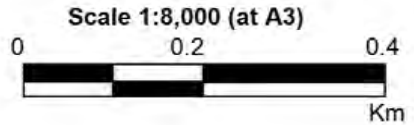

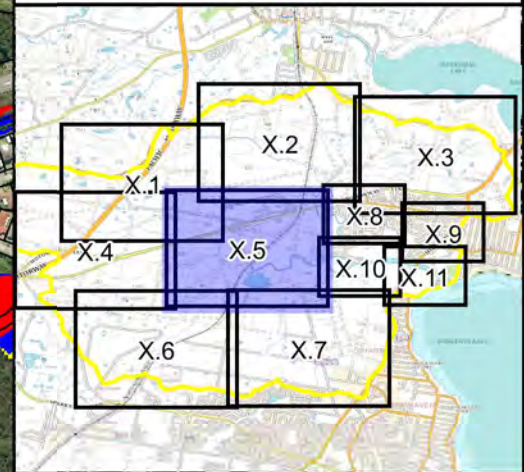
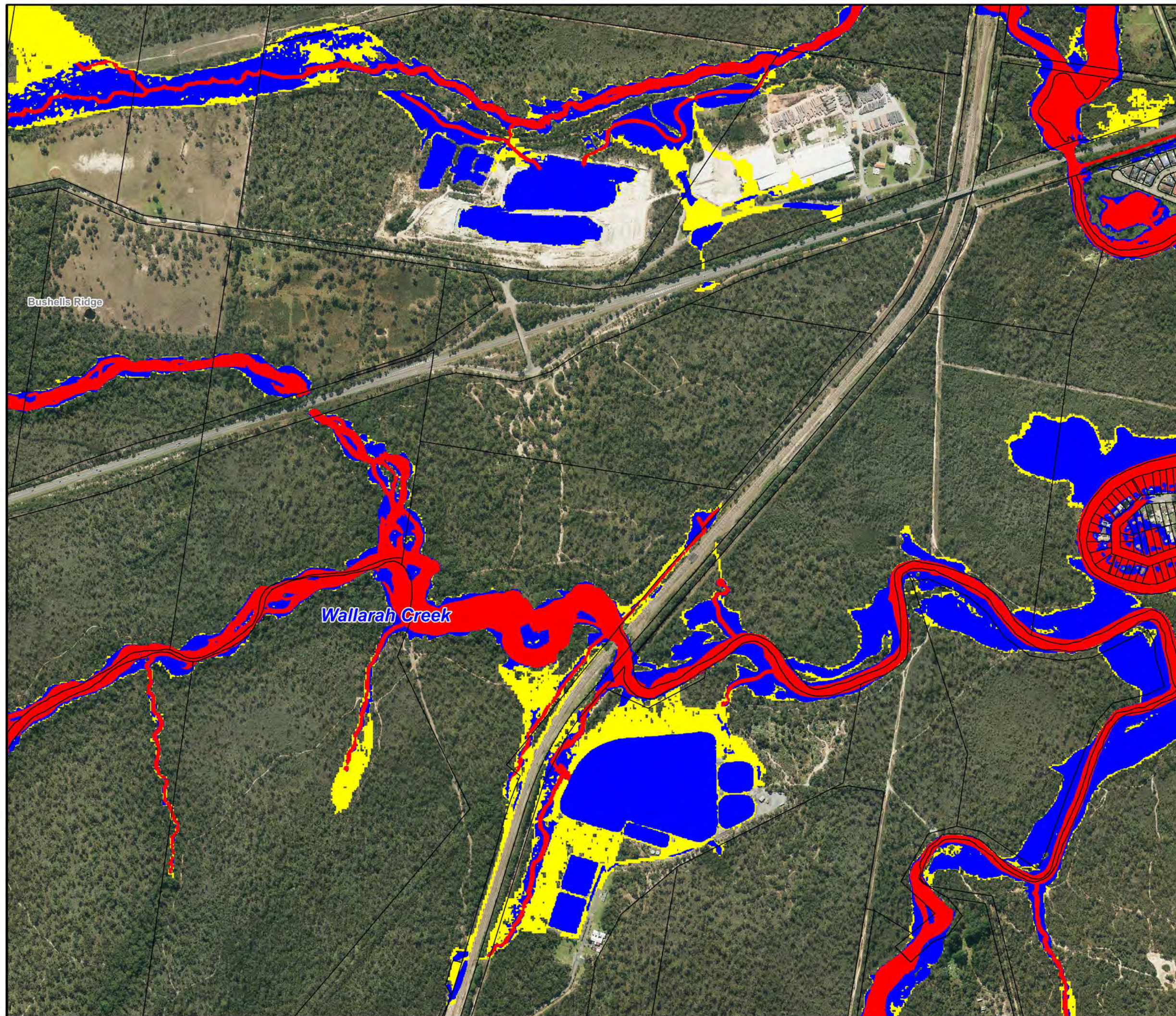


Figure 15.4:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.4 - Hydraulic Categories
for the 1% AEP Flood.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

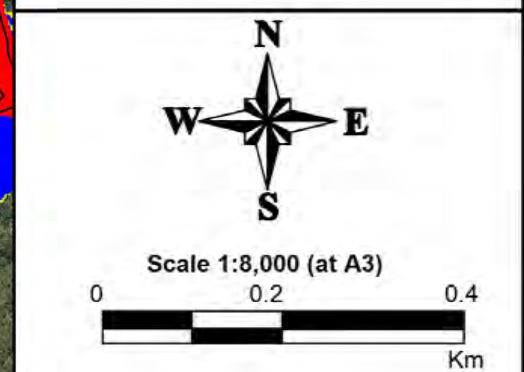

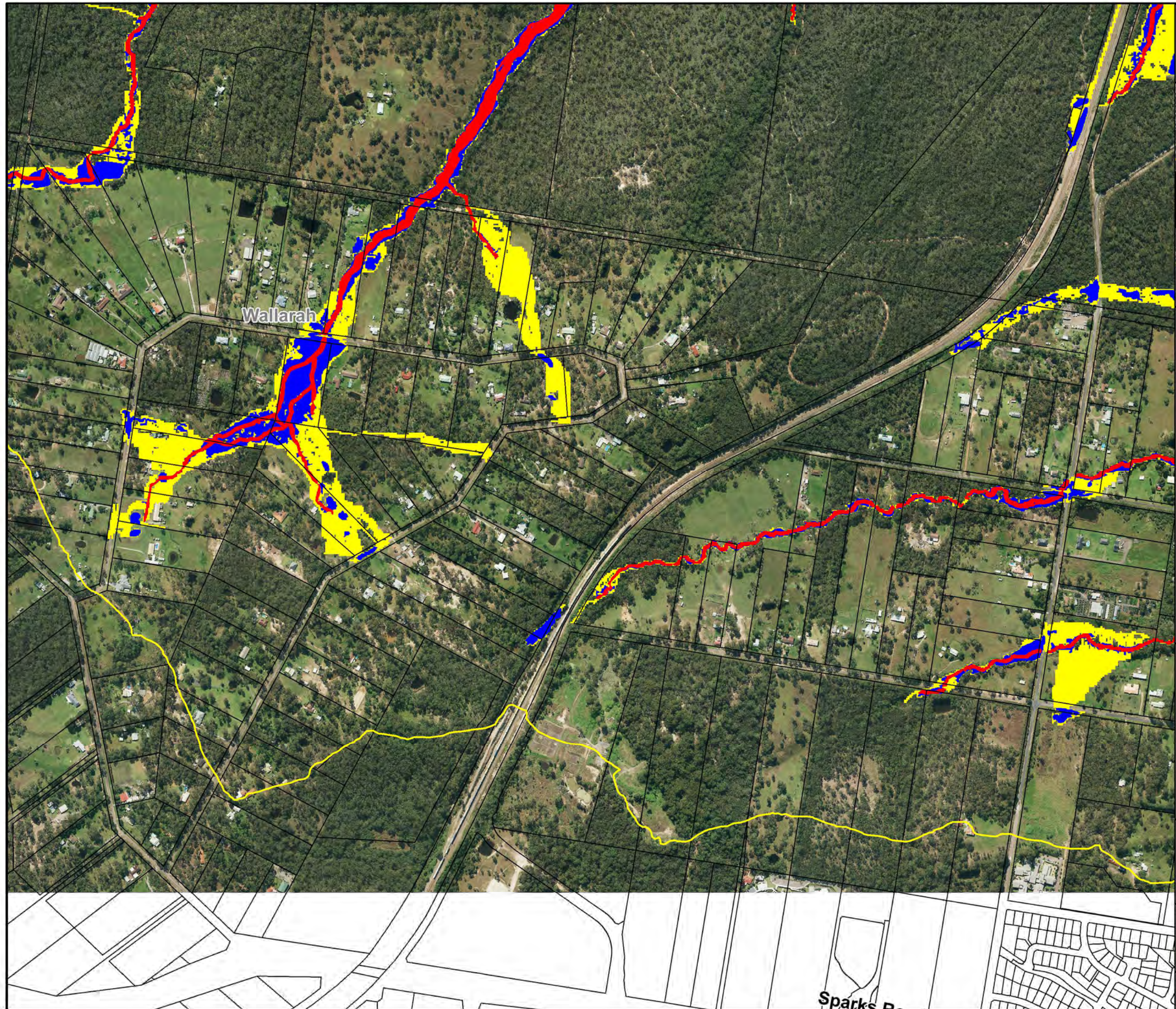


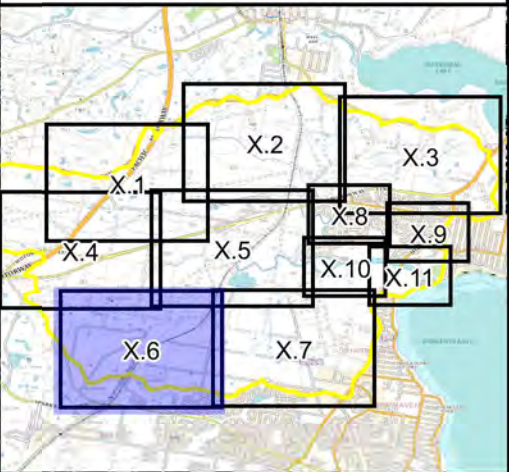
Figure 15.5:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.5 - Hydraulic Categories
for the 1% AEP Flood.wor



Central
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LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

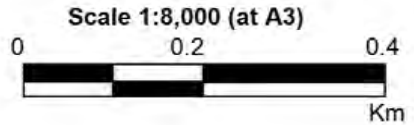

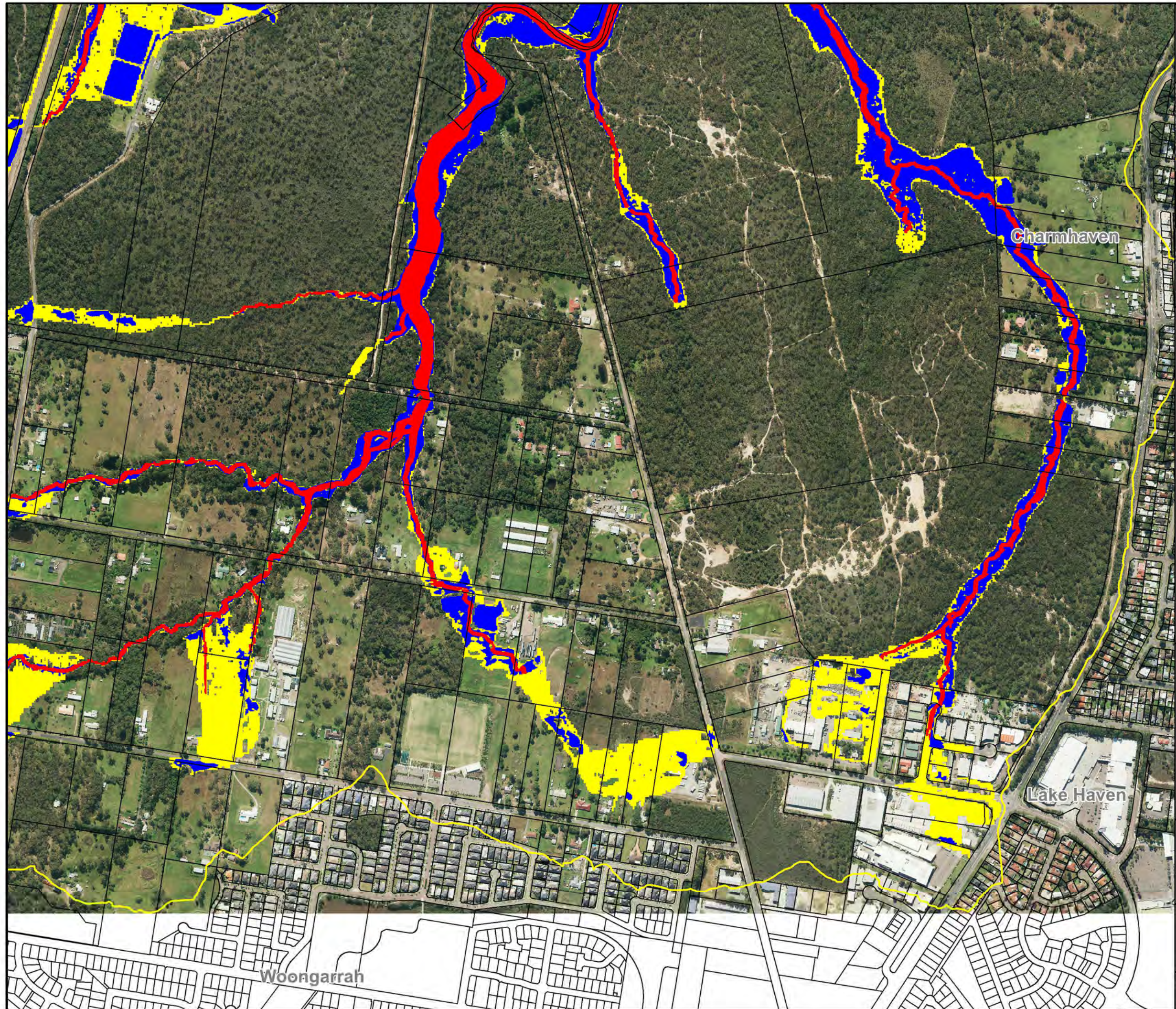


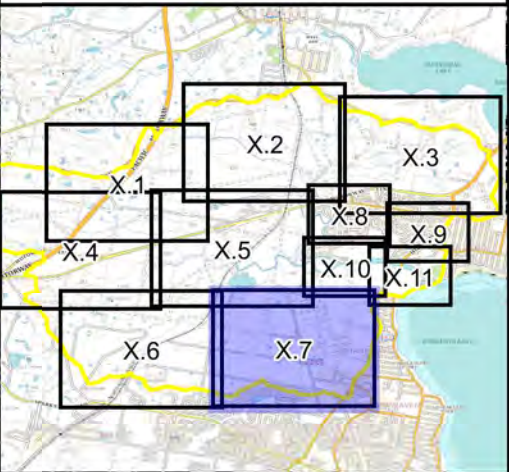
Figure 15.6:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.6 - Hydraulic Categories
for the 1% AEP Flood.wor



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Coast
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LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

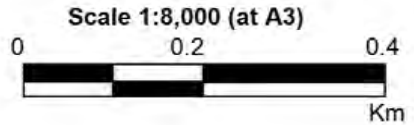
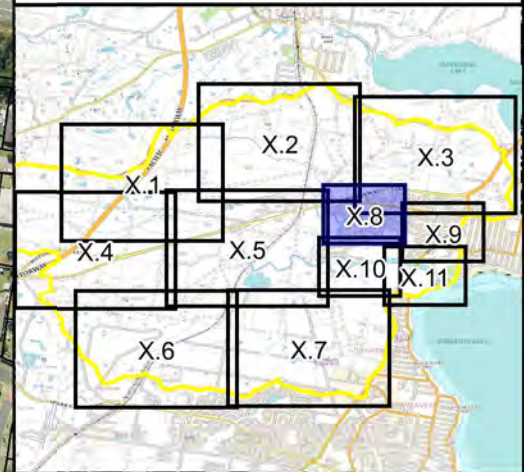


Figure 15.7:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
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Sydney, NSW 2000

File Name: Fig15.7 - Hydraulic Categories
for the 1% AEP Flood.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

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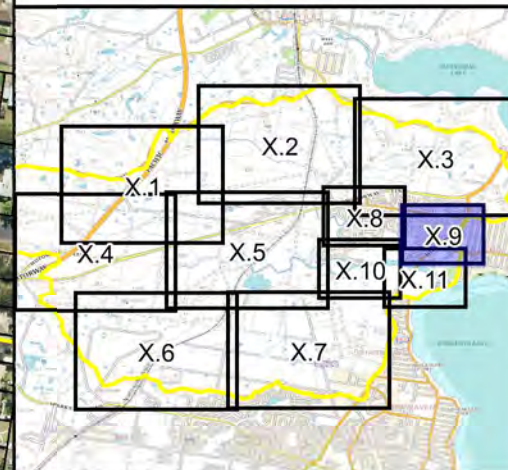
Scale 1:4,000 (at A3)

0 0.1 0.2
Km

Figure 15.8:
Hydraulic
Categories for the
1% AEP Flood

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.8 - Hydraulic Categories
for the 1% AEP Flood.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

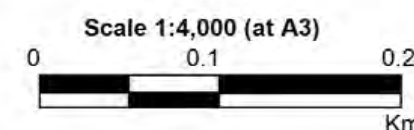
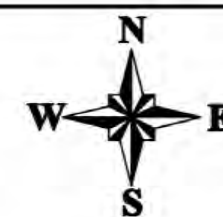

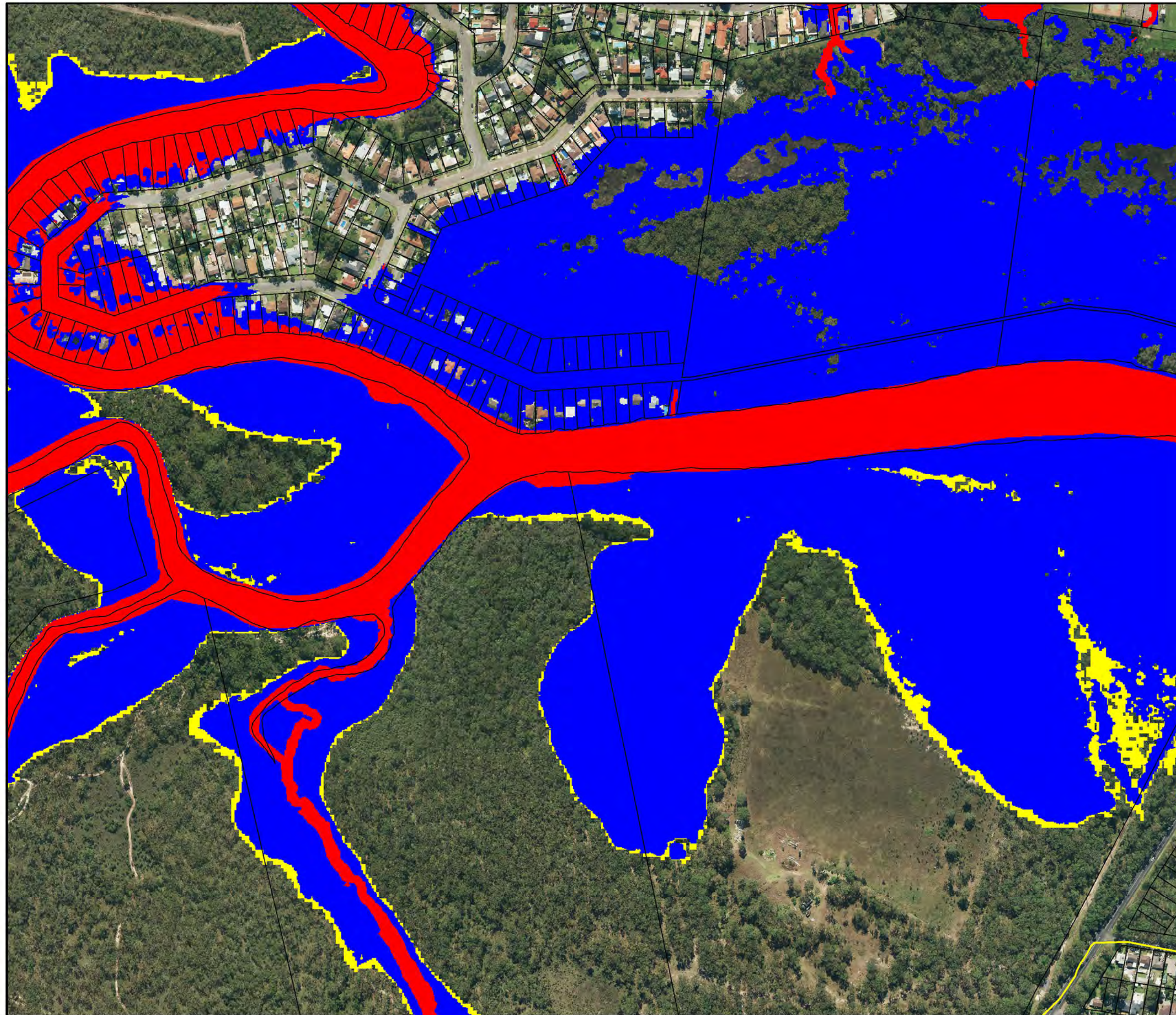


Figure 15.9:
Hydraulic
Categories for the
1% AEP Flood

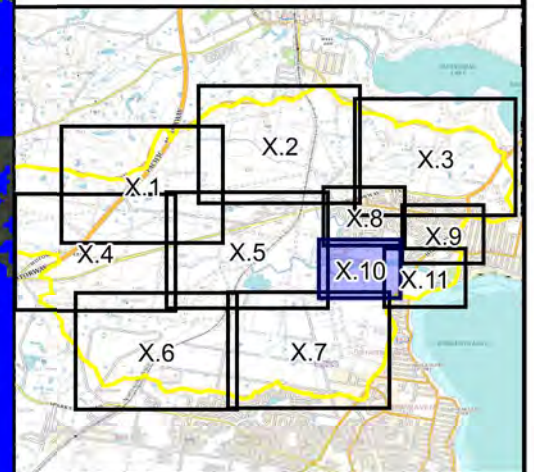
Prepared By:

 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig15.9 - Hydraulic Categories
for the 1% AEP Flood.wor



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LEGEND

Hydraulic Categories


- Flood Fringe
- Flood Storage
- Floodway



Scale 1:4,000 (at A3)
0 0.1 0.2
Km

Figure 15.10:
Hydraulic
Categories for the
1% AEP Flood

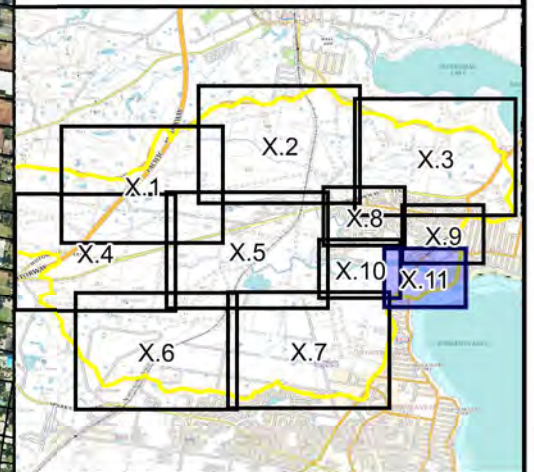
Prepared By:

 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig15.10 - Hydraulic Categories
for the 1% AEP Flood.wor



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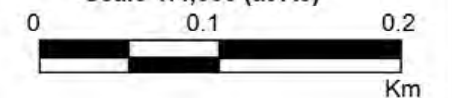
LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway




Scale 1:4,000 (at A3)

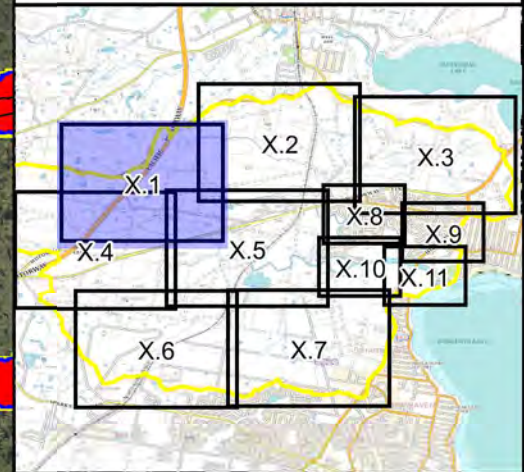
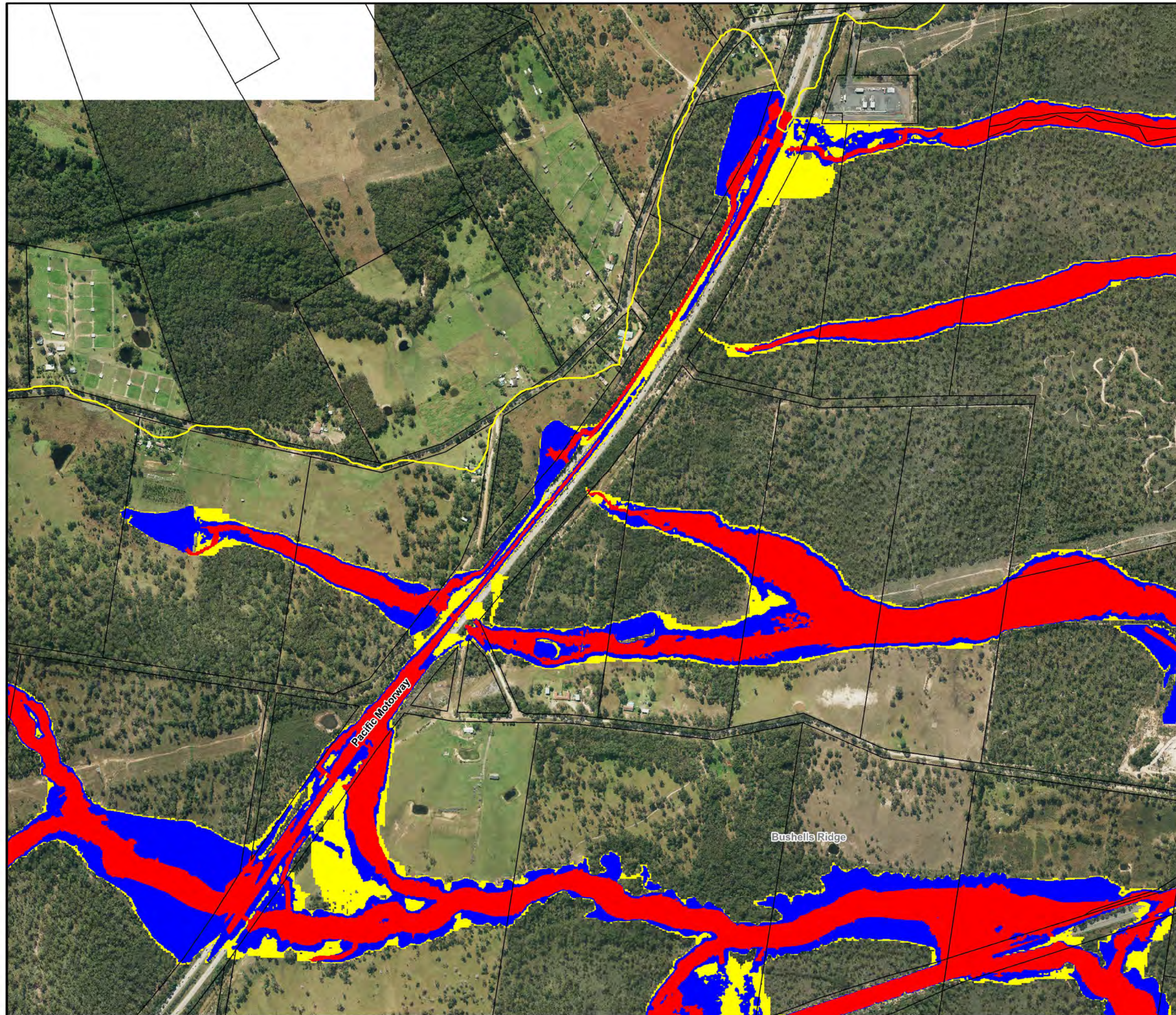


**Figure 15.11:
Hydraulic
Categories for the
1% AEP Flood**

Prepared By:

 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig15.11 - Hydraulic Categories
for the 1% AEP Flood.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

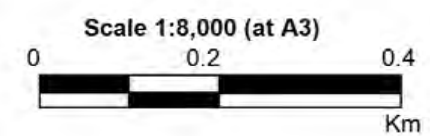
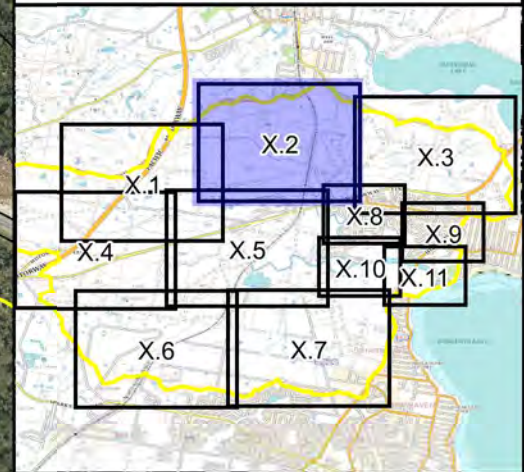
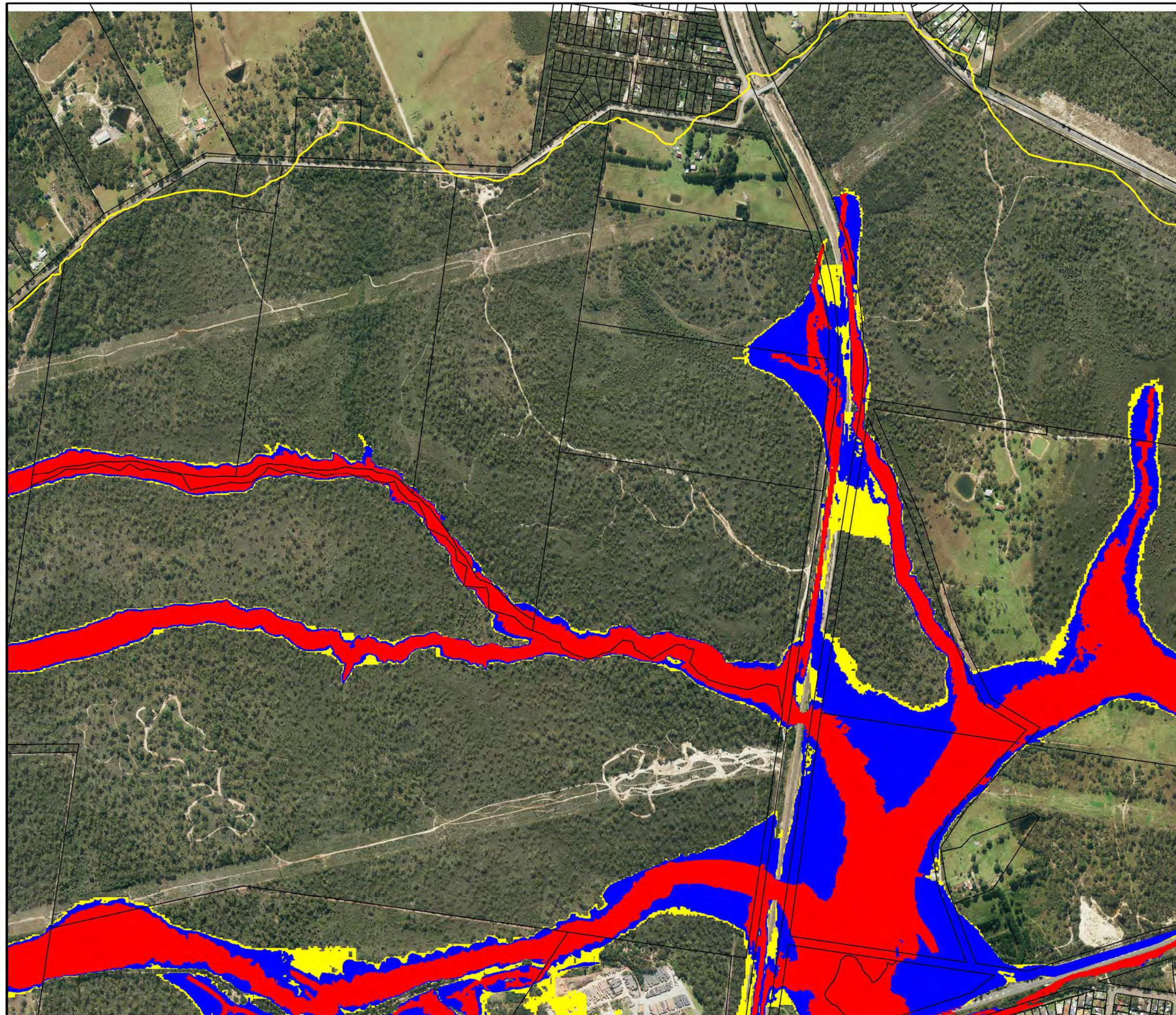


Figure 16.1:
Hydraulic
Categories for the
PMF



LEGEND

- Hydraulic Categories
- Flood Fringe
 - Flood Storage
 - Floodway

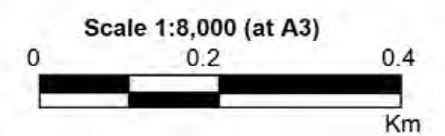
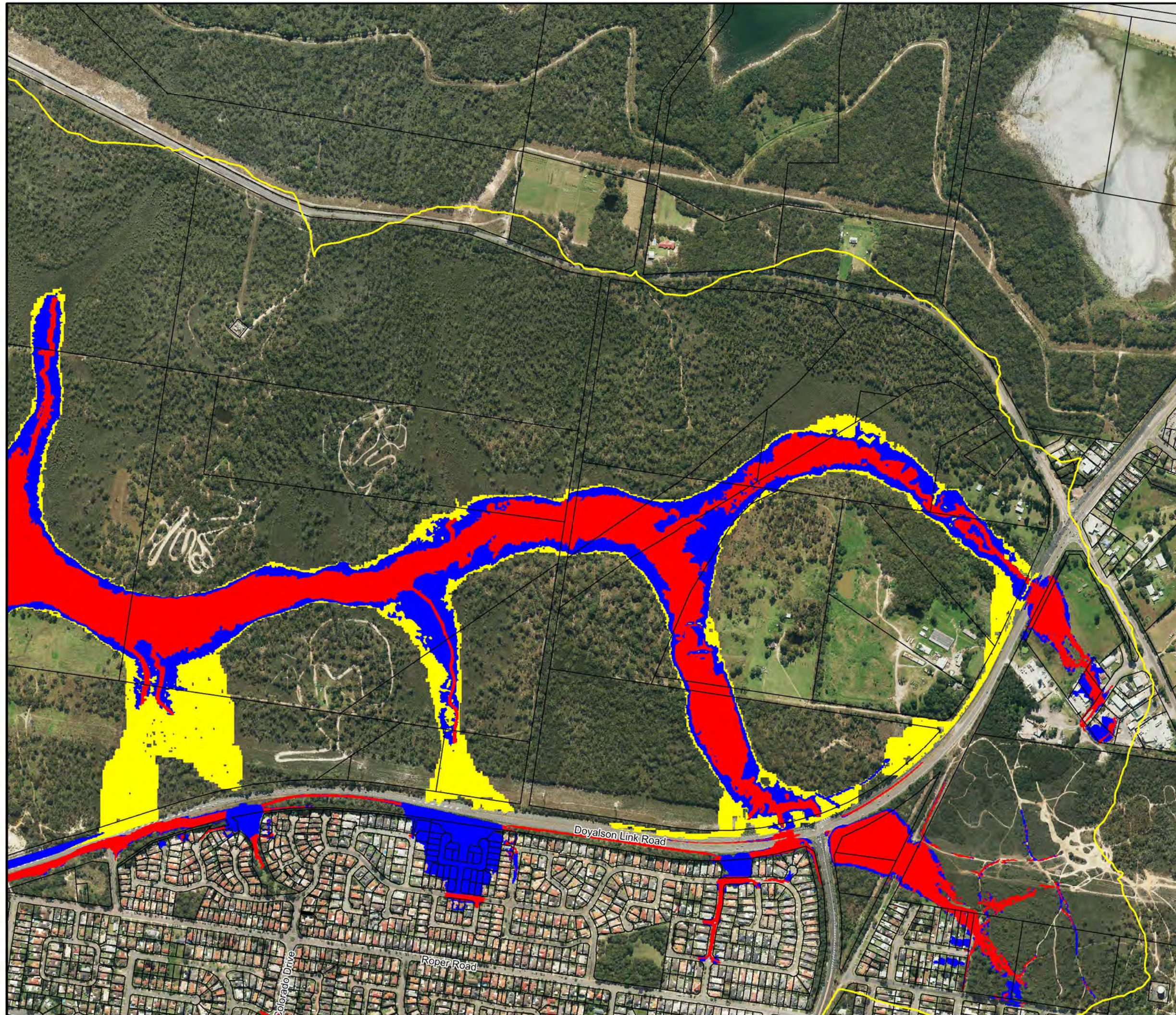
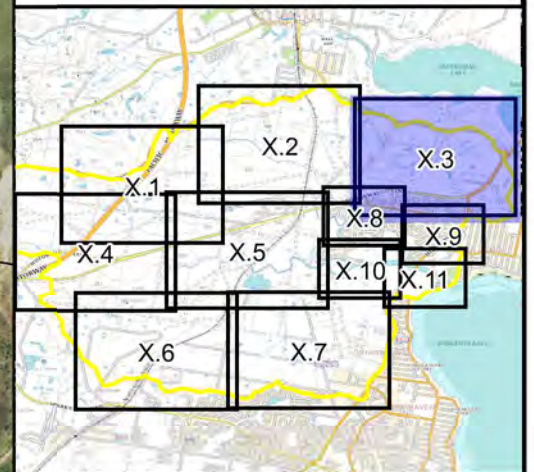


Figure 16.2:
Hydraulic
Categories for the
PMF



Central
Coast
Council



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway




Scale 1:8,000 (at A3)

0 0.2 0.4

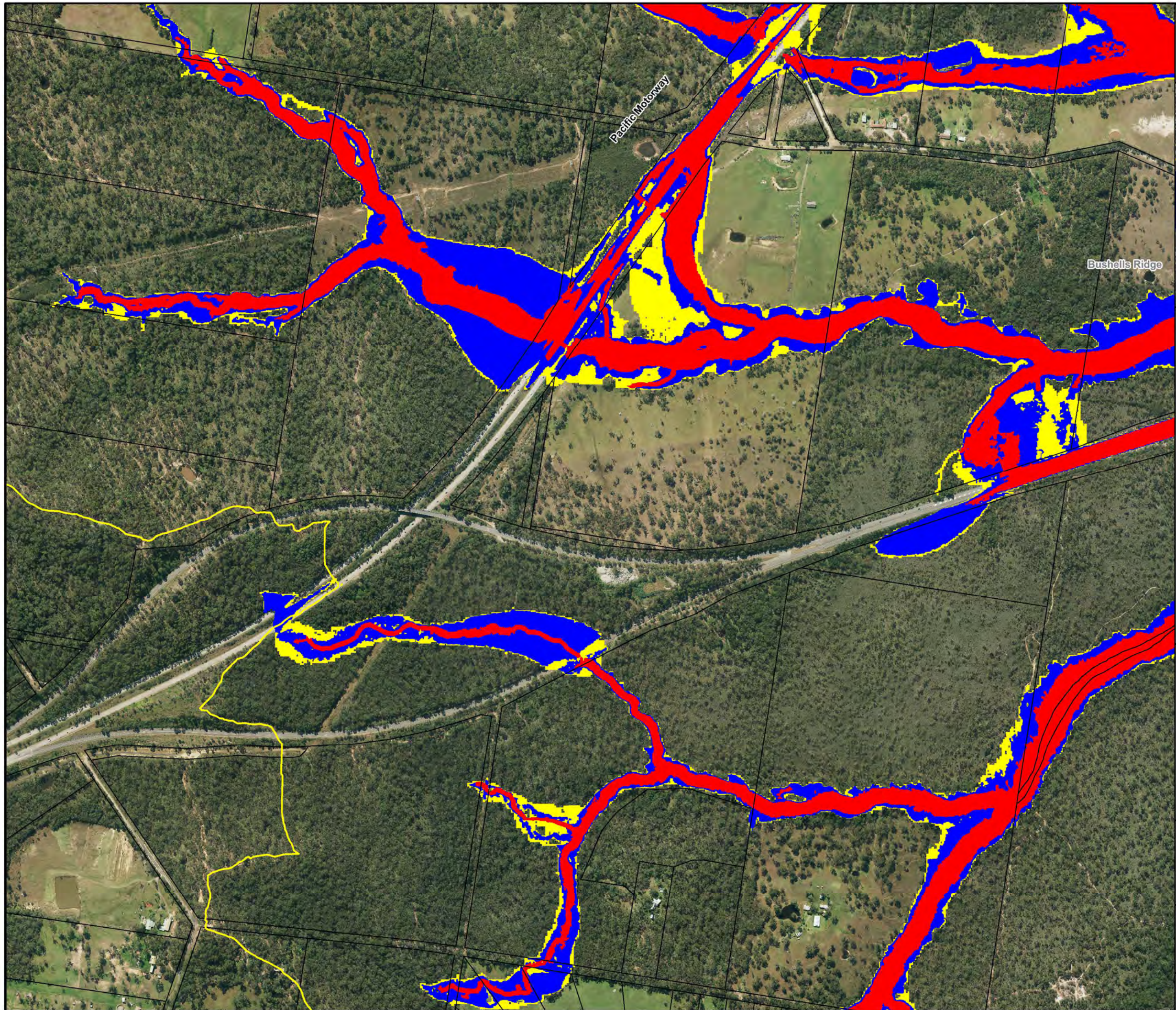
Km

Figure 16.3:
Hydraulic
Categories for the
PMF

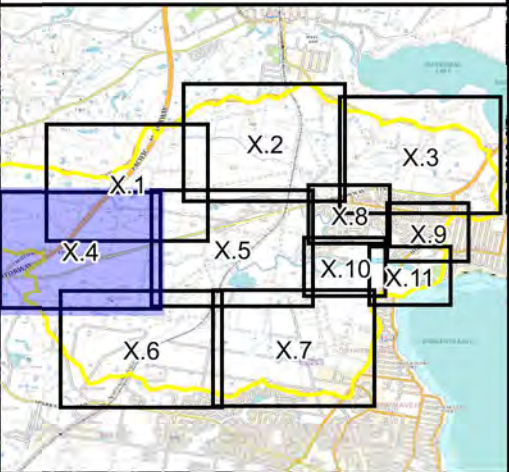
Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.3 - Hydraulic Categories
for the PMF.wor



Central Coast Council



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

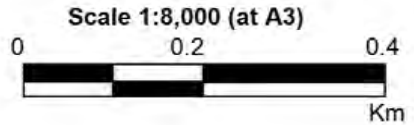

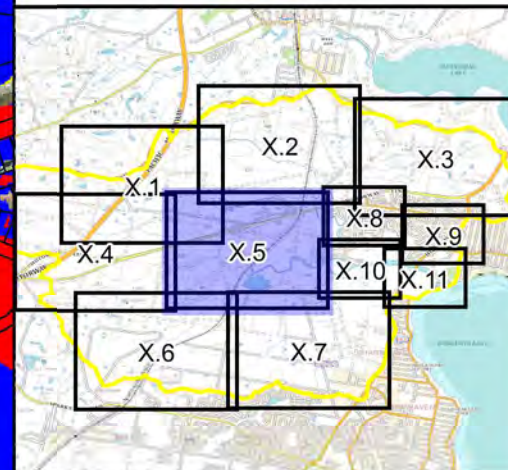
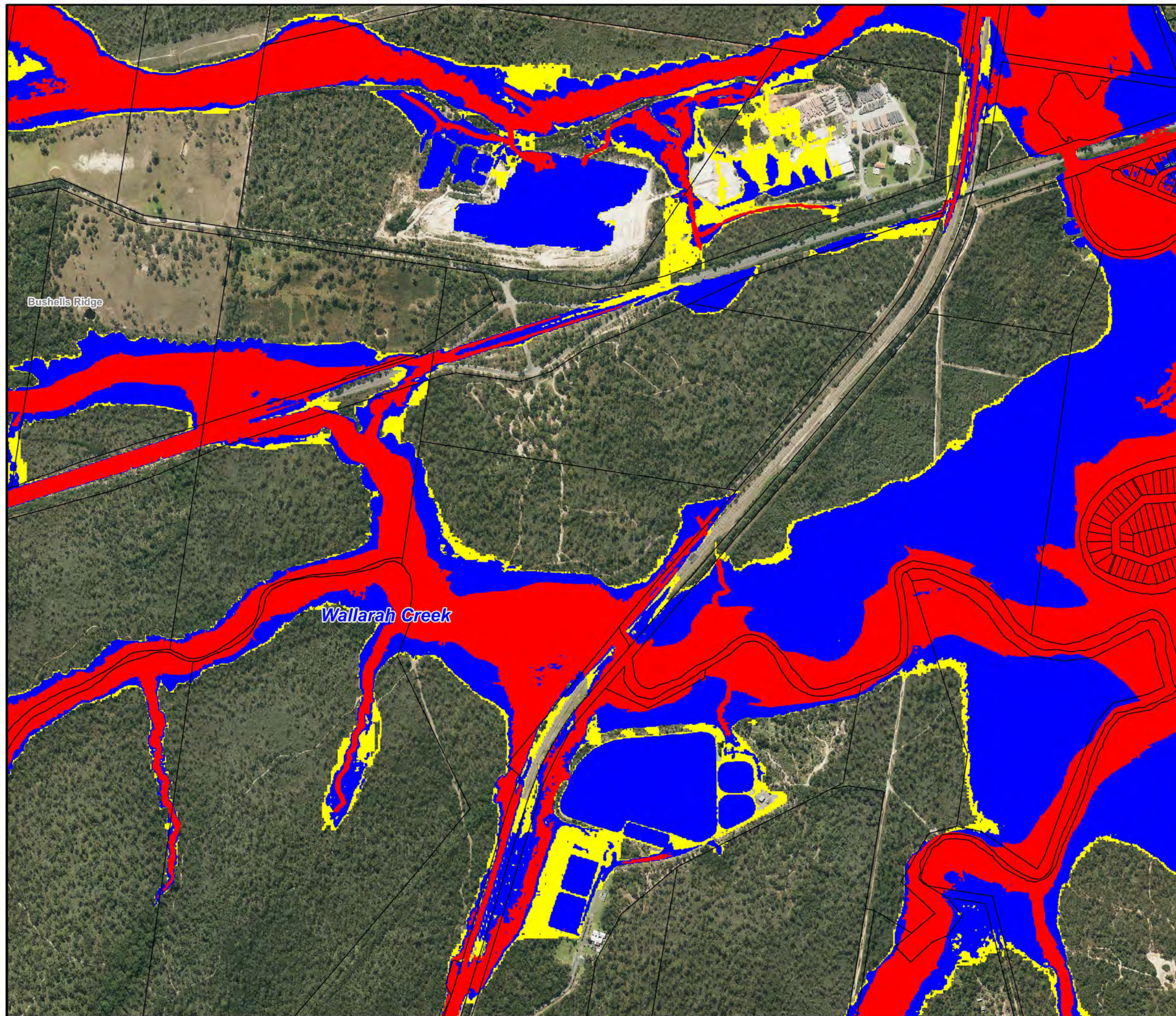


Figure 16.4:
Hydraulic
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.4 - Hydraulic Categories
for the PMF.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

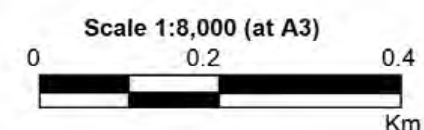

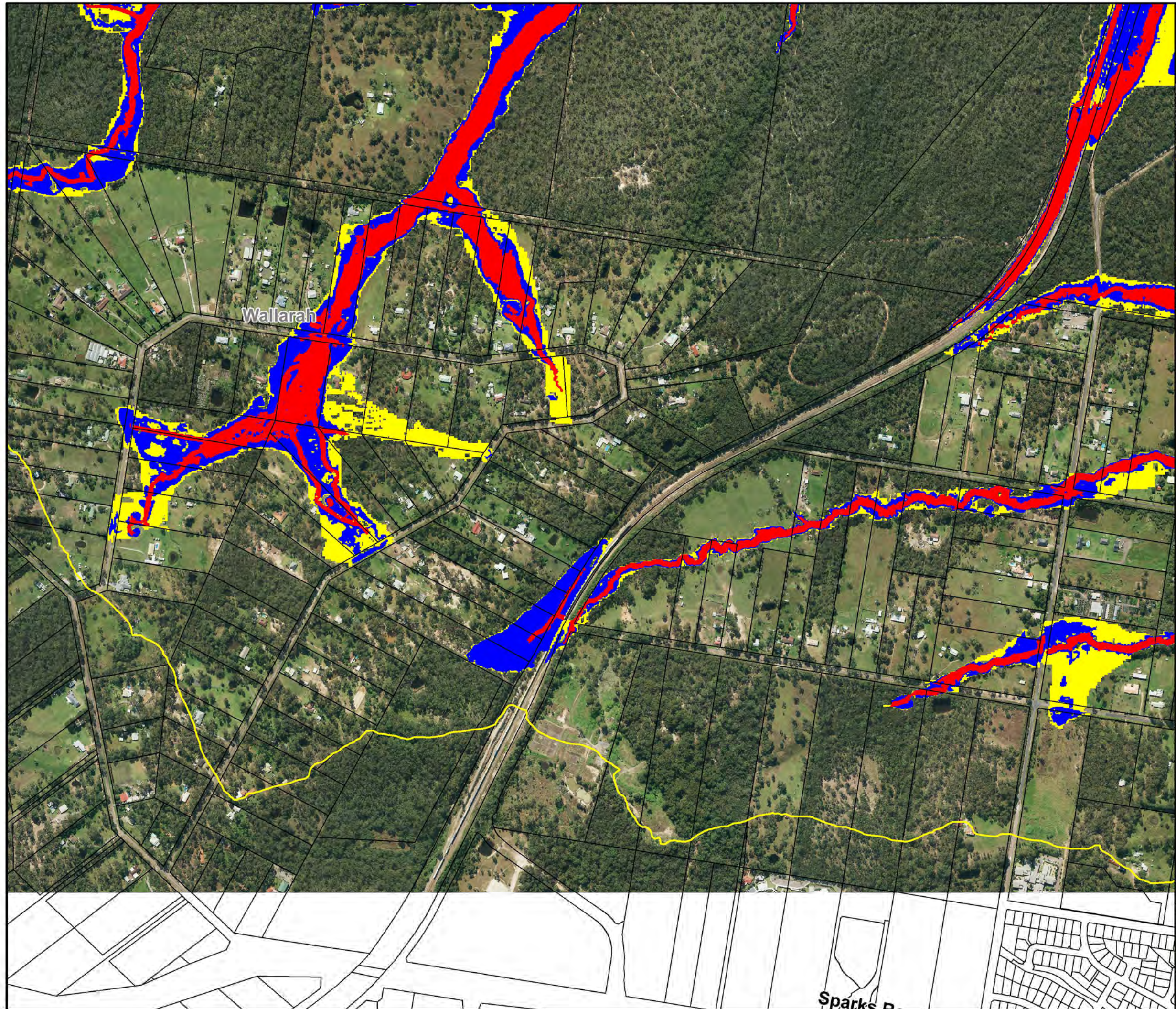


Figure 16.5:
Hydraulic
Categories for the
PMF

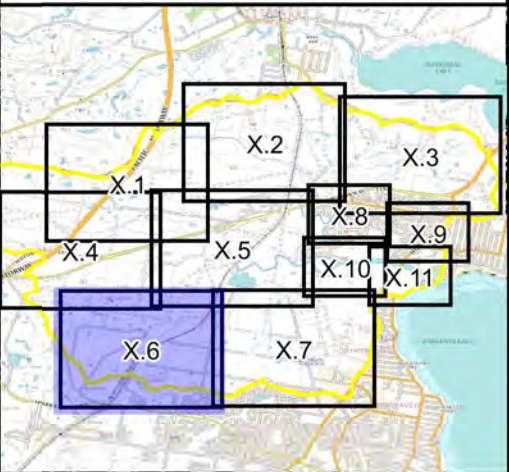
Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.5 - Hydraulic Categories
for the PMF.wor



Central
Coast
Council



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

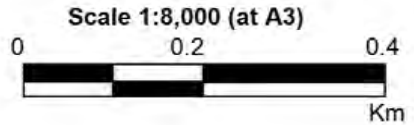
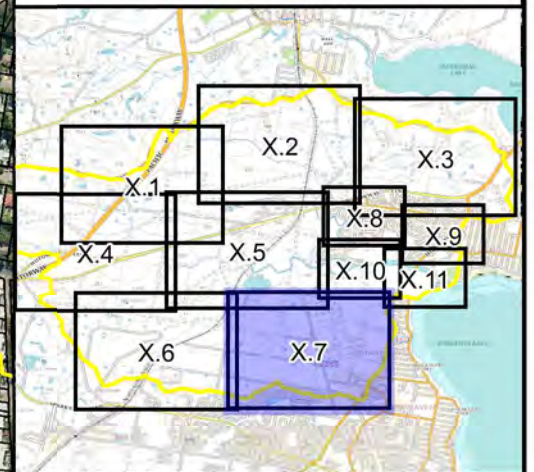
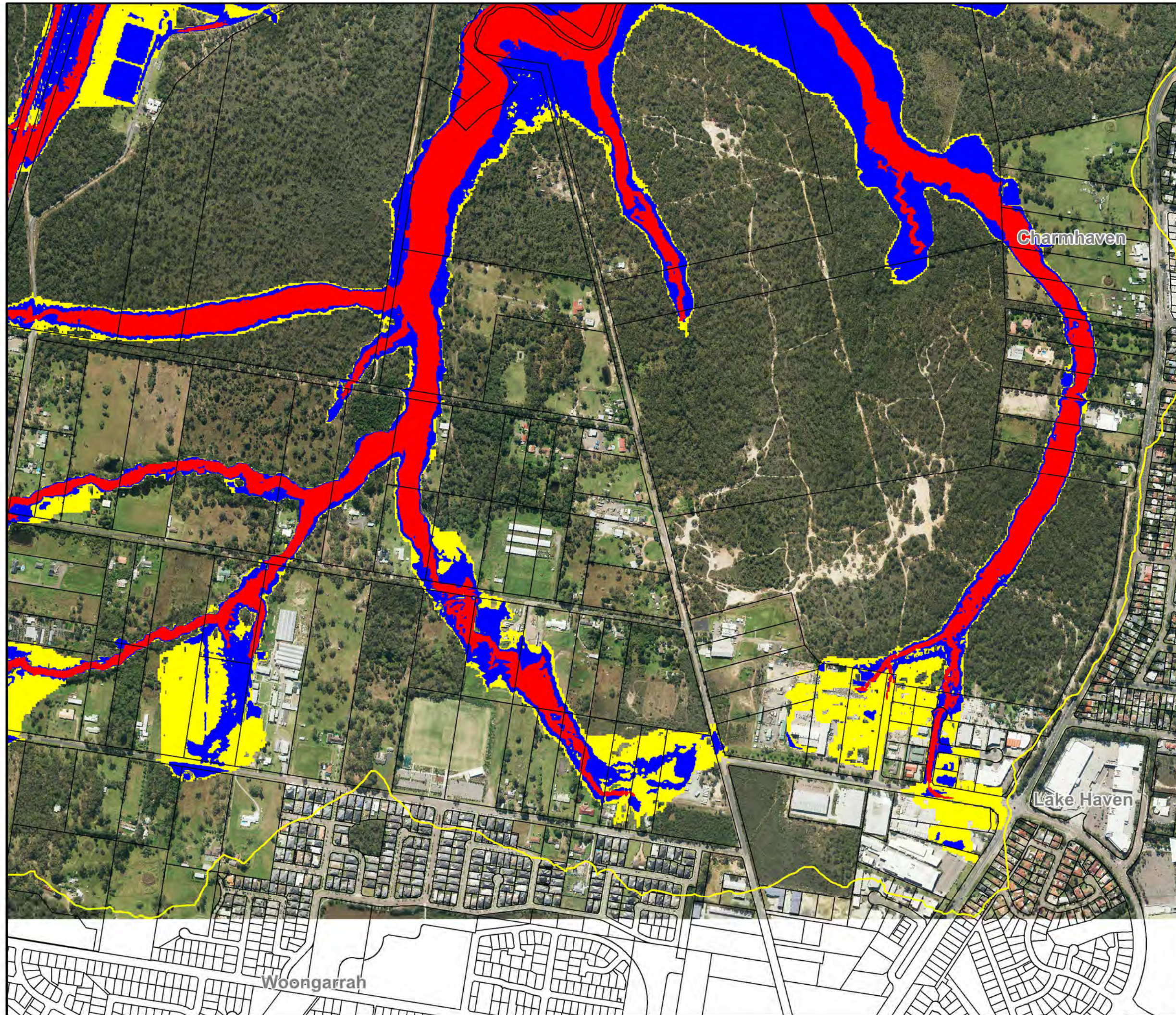


Figure 16.6:
Hydraulic
Categories for the
PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.6 - Hydraulic Categories
for the PMF.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

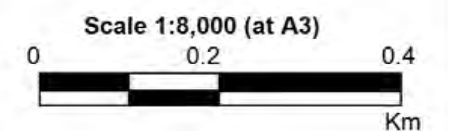
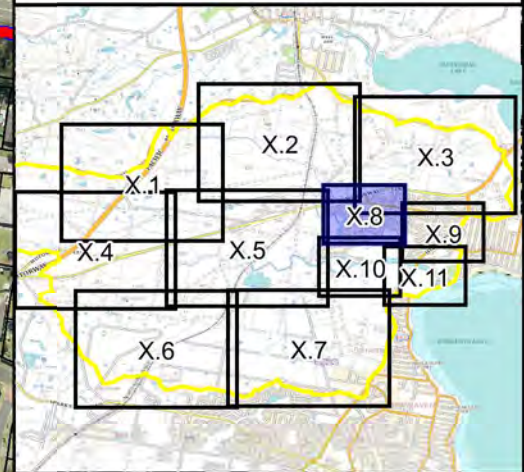
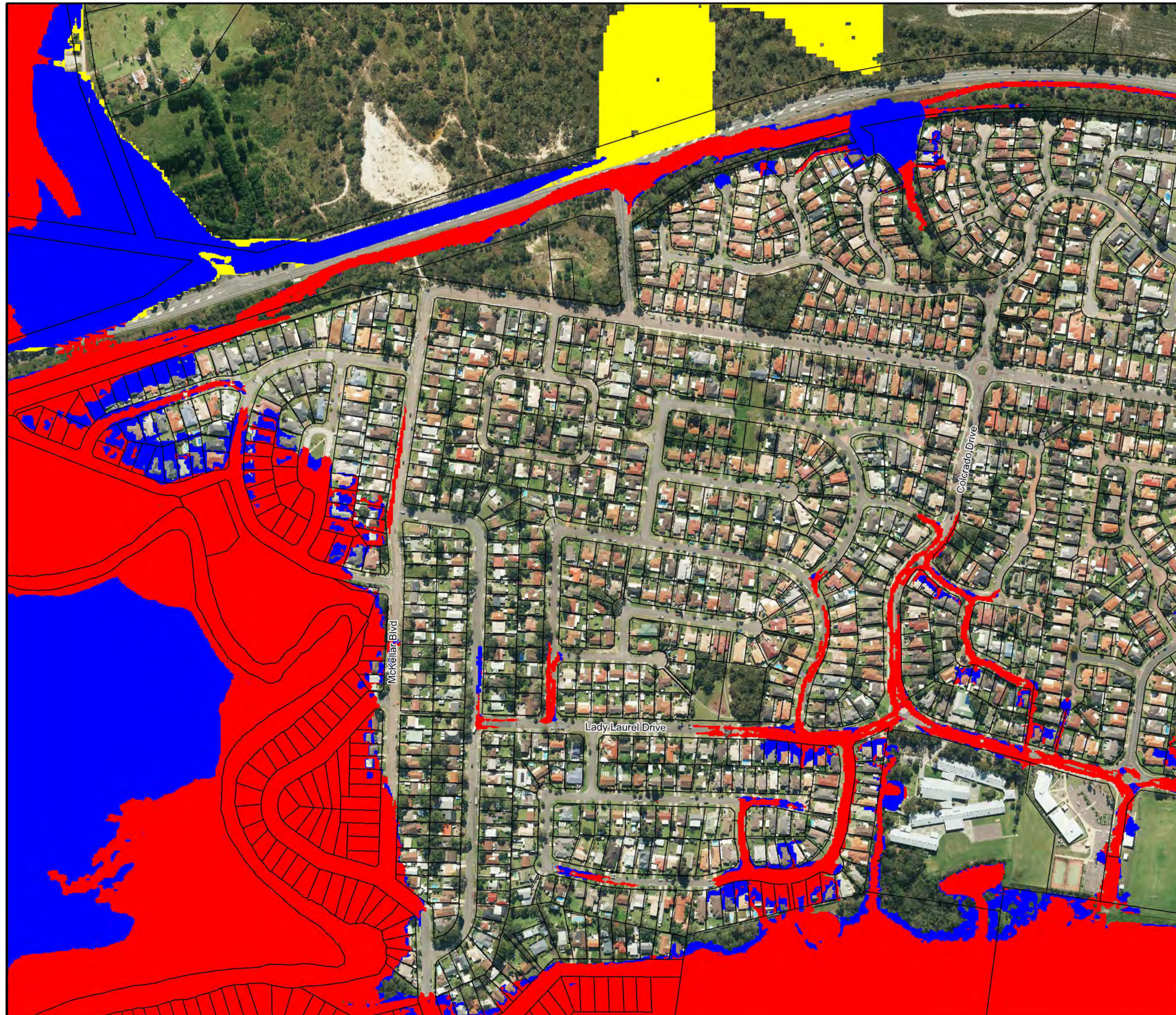


Figure 16.7:
Hydraulic
Categories for the
PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.7 - Hydraulic Categories
for the PMF.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

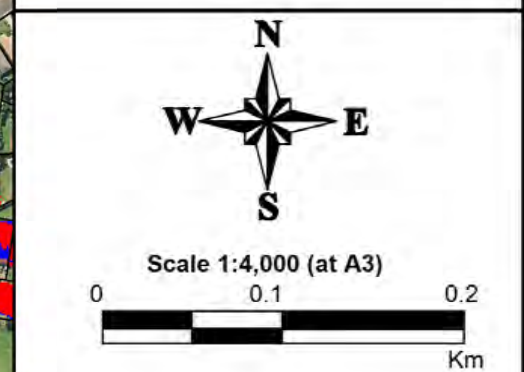

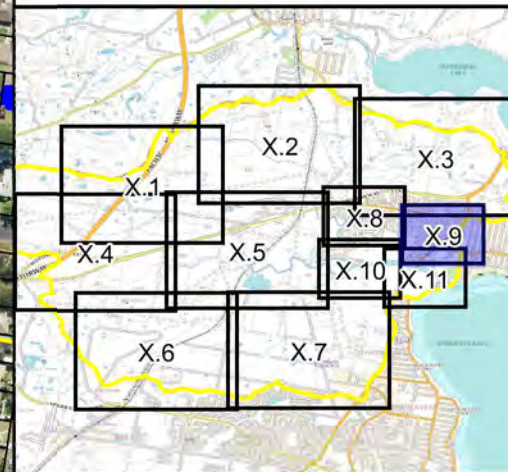


Figure 16.8:
Hydraulic
Categories for the
PMF

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

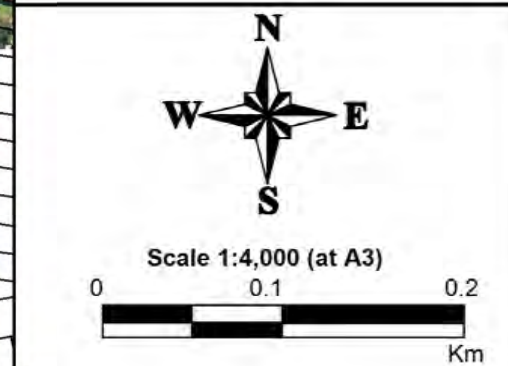
File Name: Fig16.8 - Hydraulic Categories
for the PMF.wor

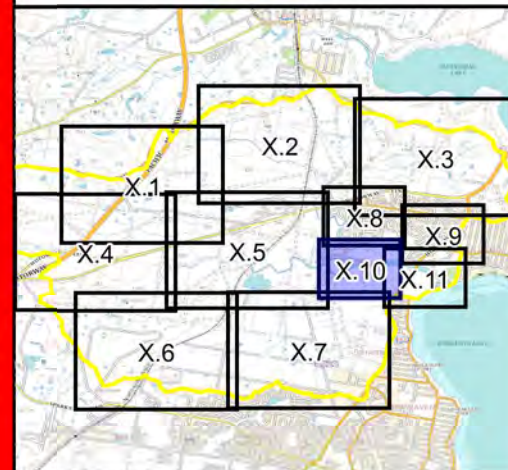
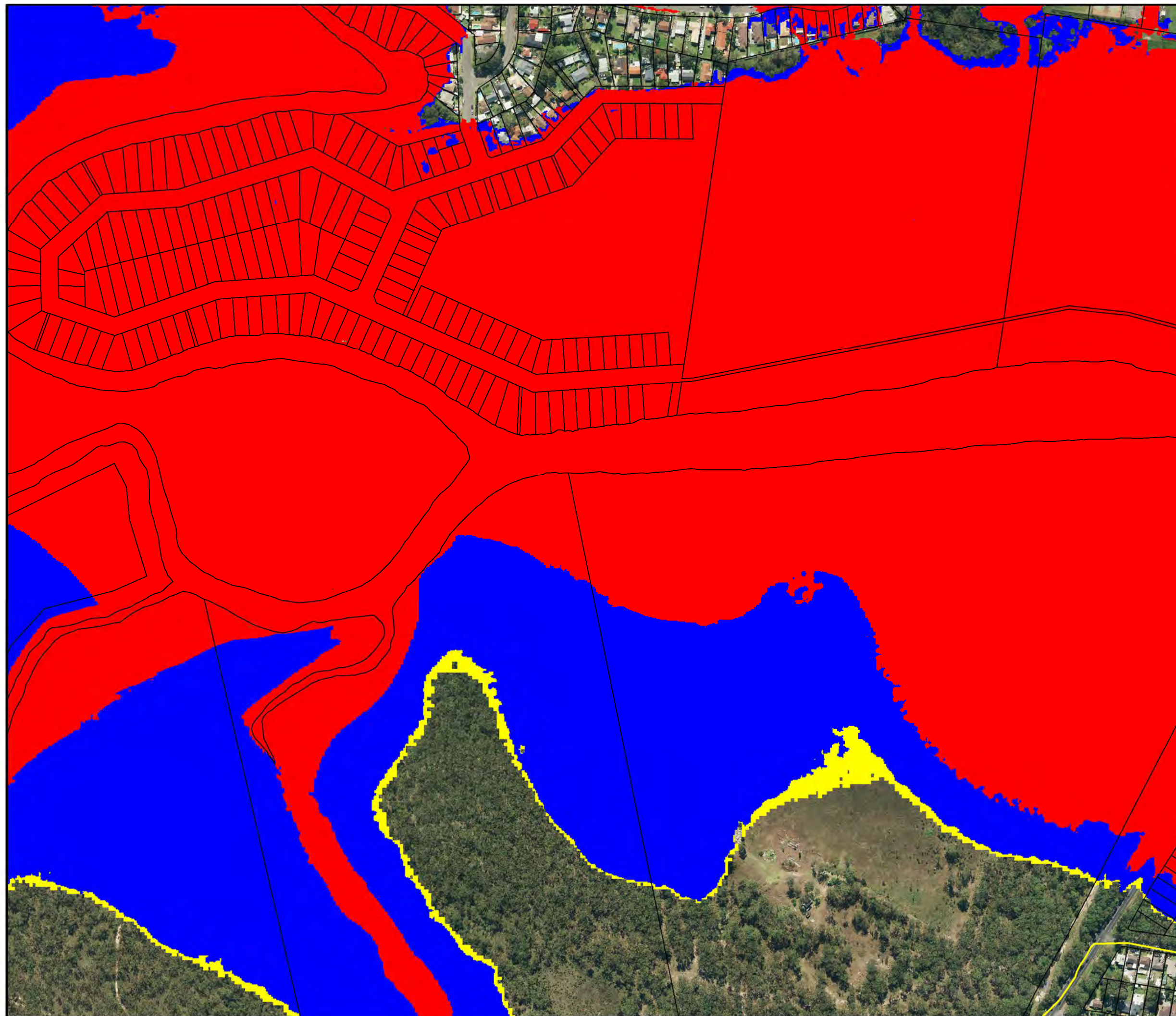


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

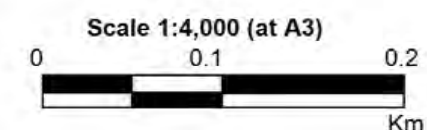




LEGEND


Hydraulic Categories

-  Flood Fringe
-  Flood Storage
-  Floodway

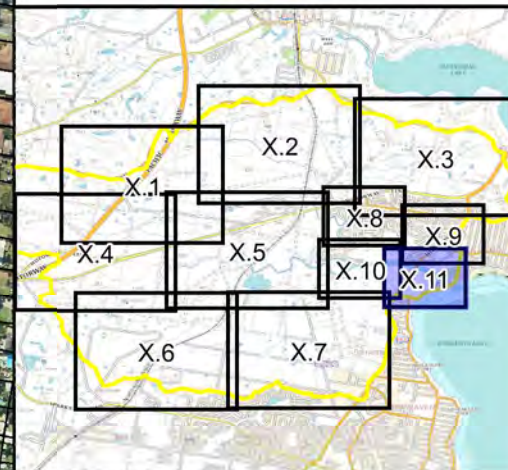
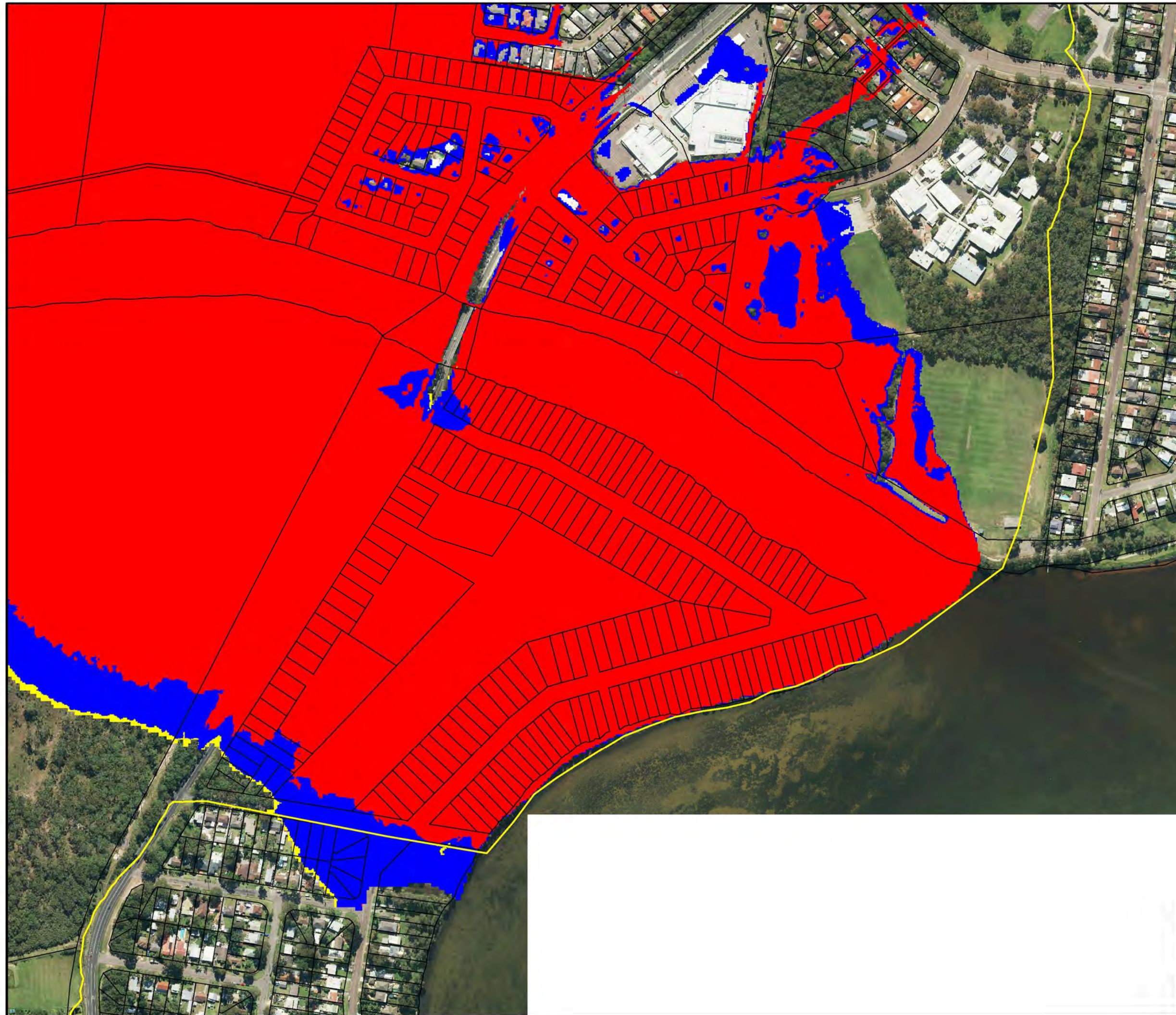


**Figure 16.10:
Hydraulic
Categories for the
PMF**

Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.10 - Hydraulic Categories
for the PMF.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway



Scale 1:4,000 (at A3)

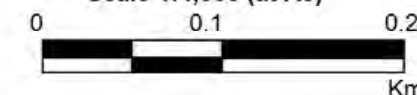



Figure 16.11:
Hydraulic
Categories for the
PMF

Prepared By:

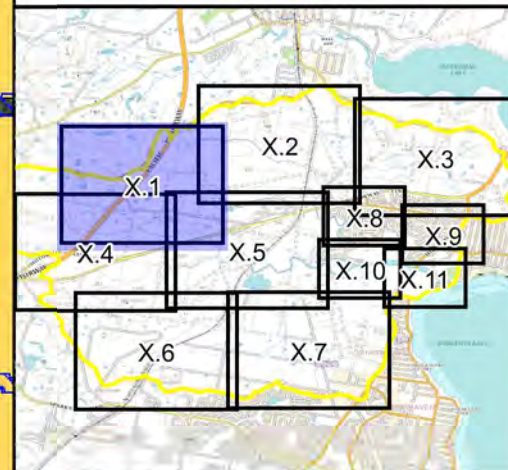
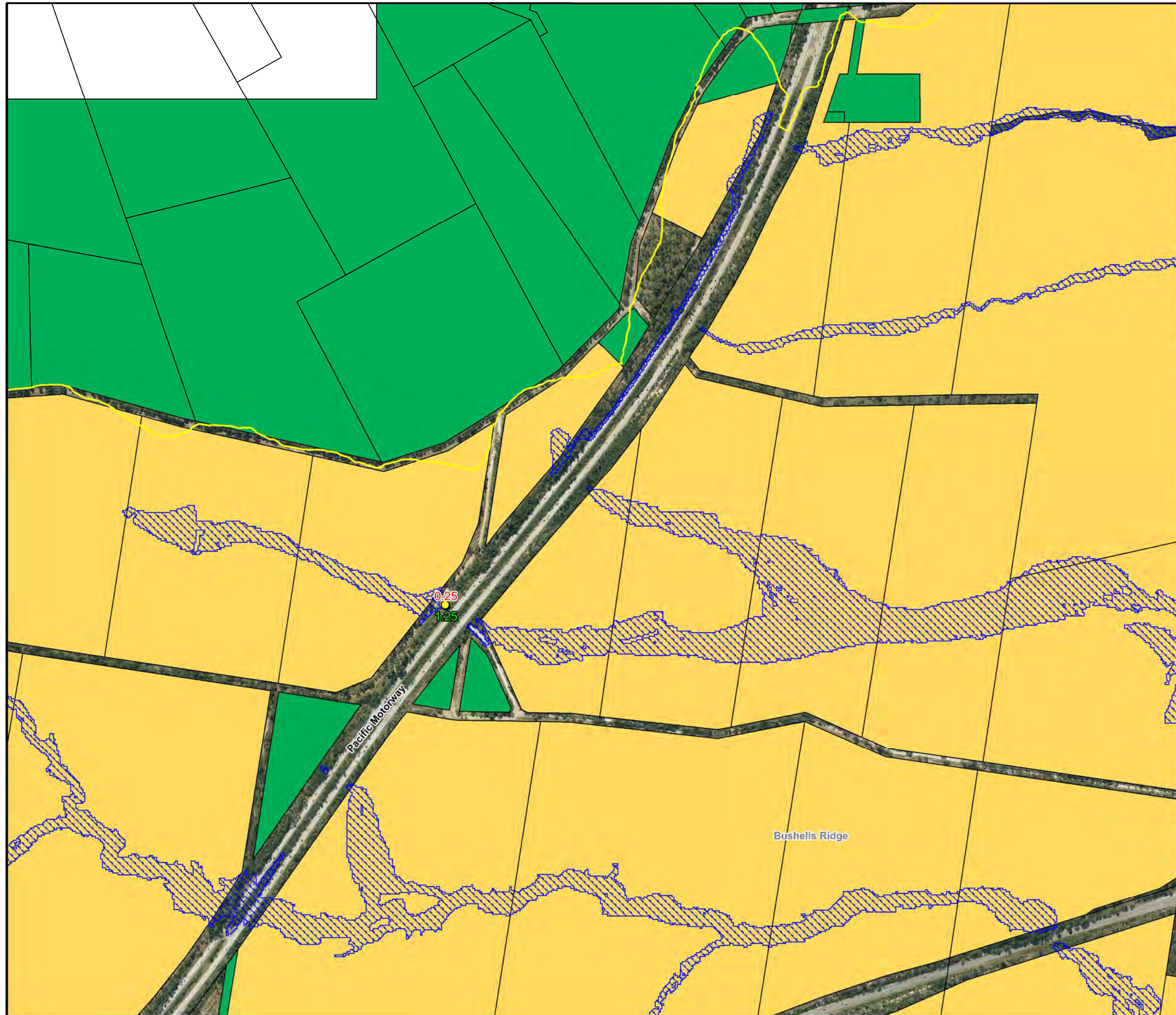
 **Catchment Simulation Solutions**
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Sydney, NSW 2000

File Name: Fig16.11 - Hydraulic Categories
for the PMF.wor



EMERGENCY RESPONSE PRECINCT CLASSIFICATIONS





LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- ▨ Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.5 Time Road Cut (hours)

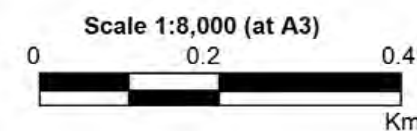
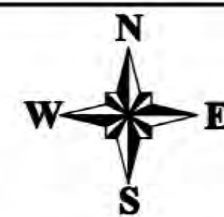

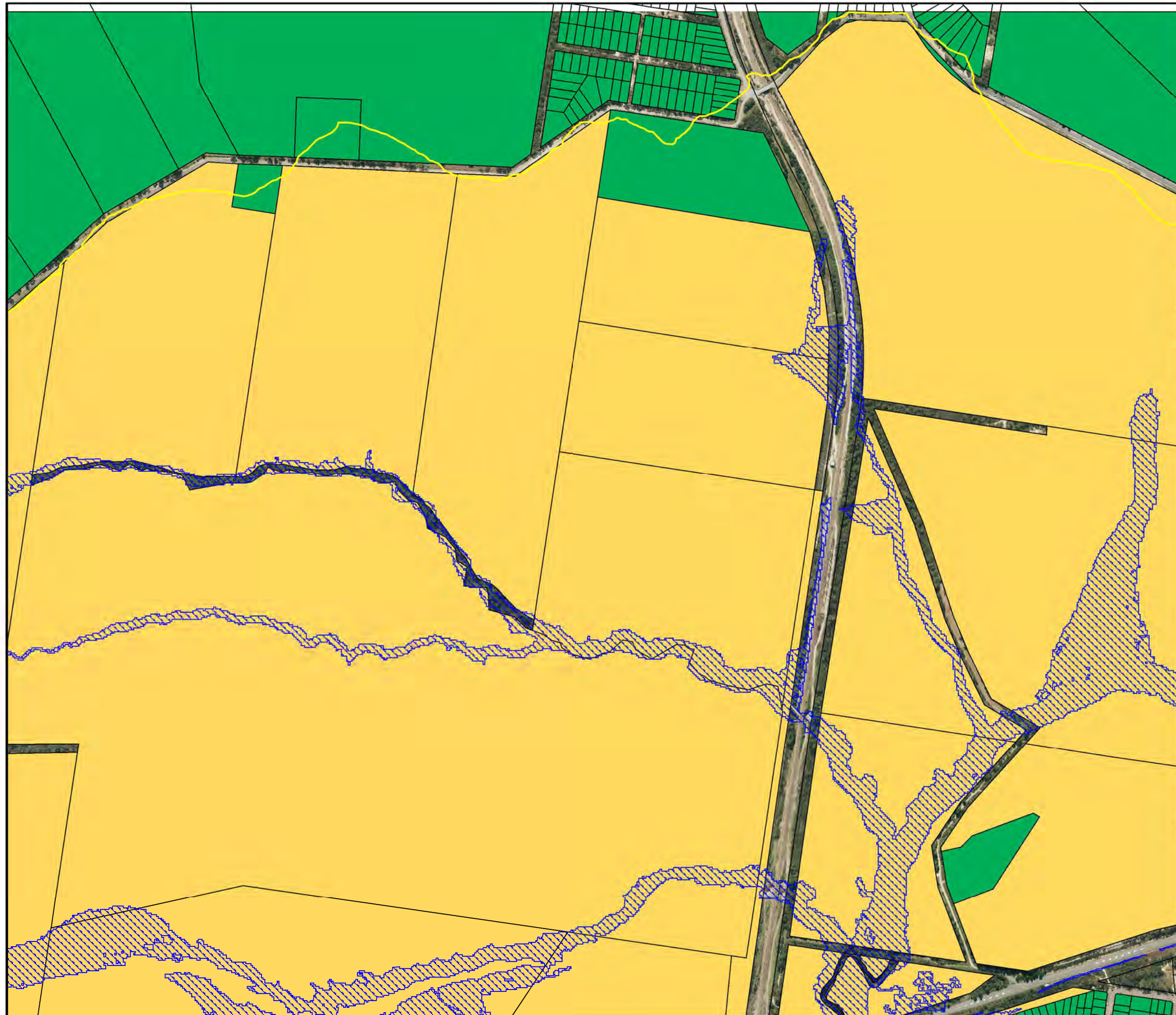


Figure 17.1:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

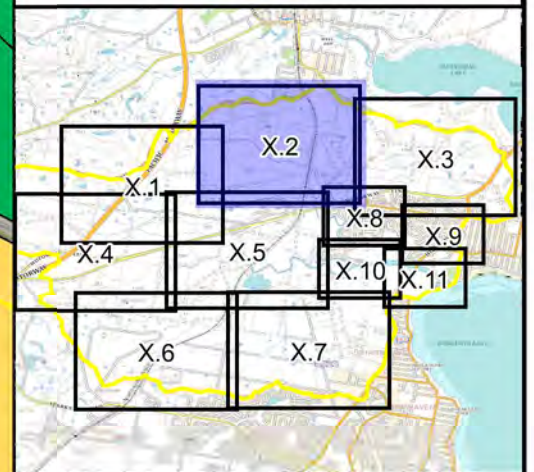
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File Name: Fig17.1 - ERC for the 1% AEP Flood .wor



Central
Coast
Council



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- ▨ Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)

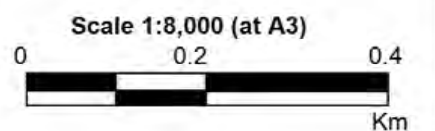

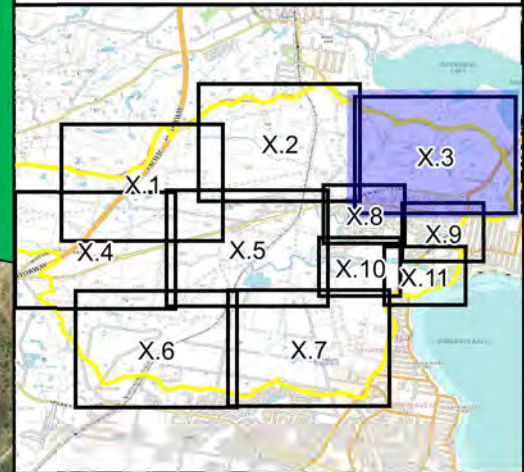
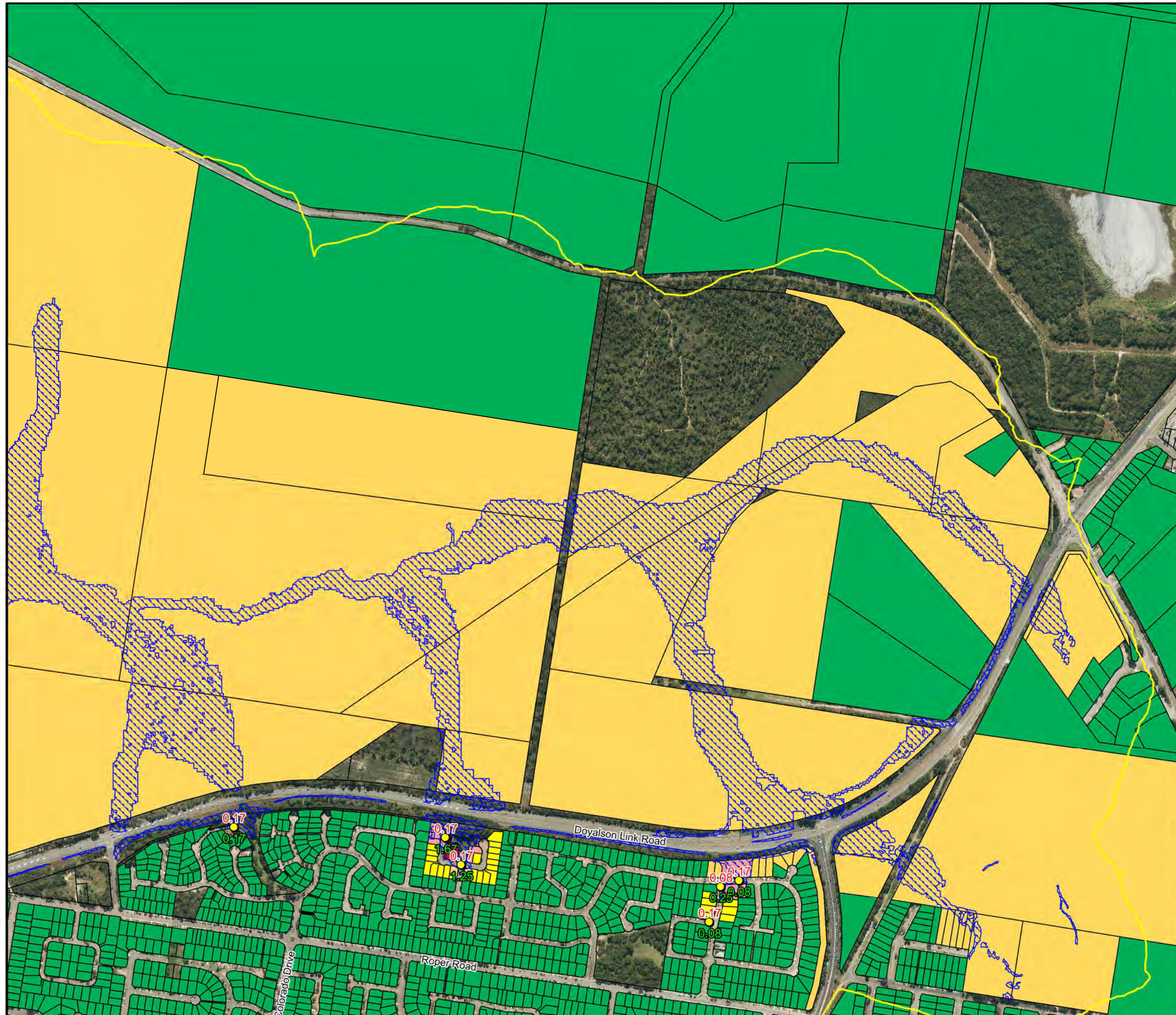


Figure 17.2:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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File Name: Fig17.2 - ERC for the 1% AEP
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

Scale 1:8,000 (at A3)

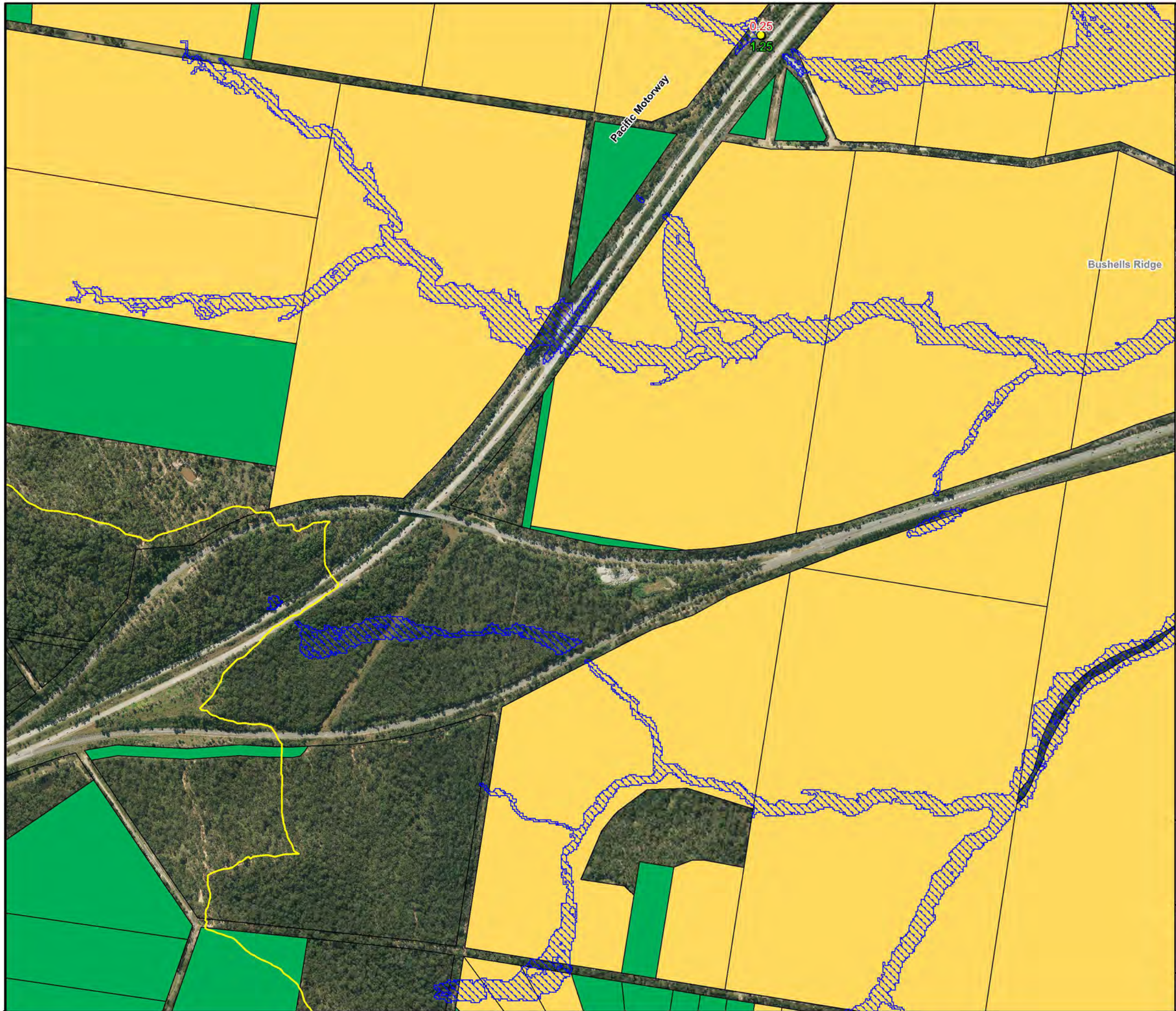
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N
W E
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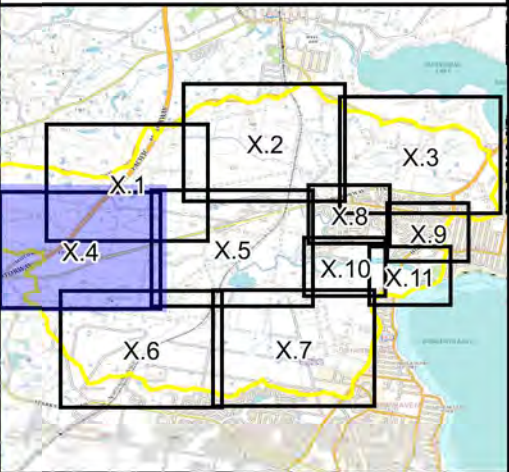
Figure 17.3:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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Catchment Simulation Solutions
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Sydney, NSW 2000

File Name: Fig17.3 - ERC for the 1% AEP Flood .wor



Central Coast Council



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)

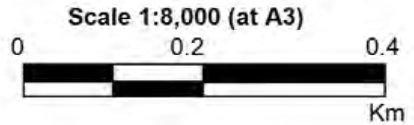

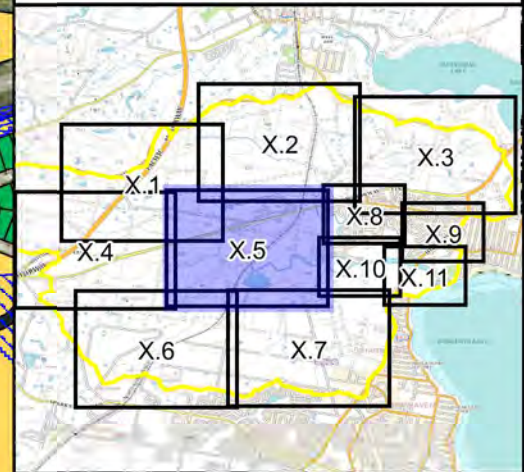
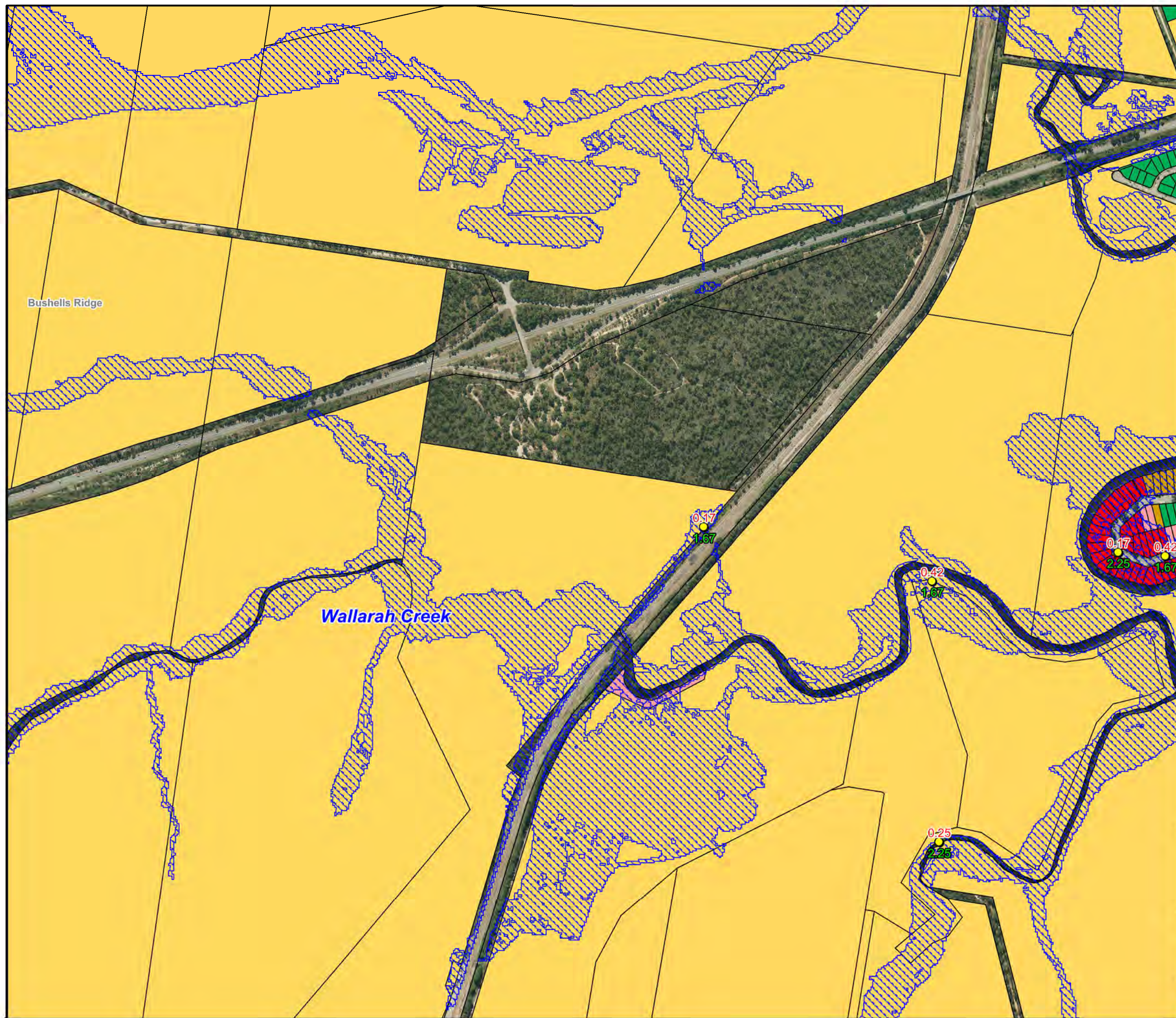


Figure 17.4:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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Sydney, NSW 2000

File Name: Fig17.4 - ERC for the 1% AEP Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Escape
- Flooded Exit Rising Road
- Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

3.6
2.9

Time Road First Cut (hours)

Time Road Cut (hours)

N
W E
S

Scale 1:8,000 (at A3)

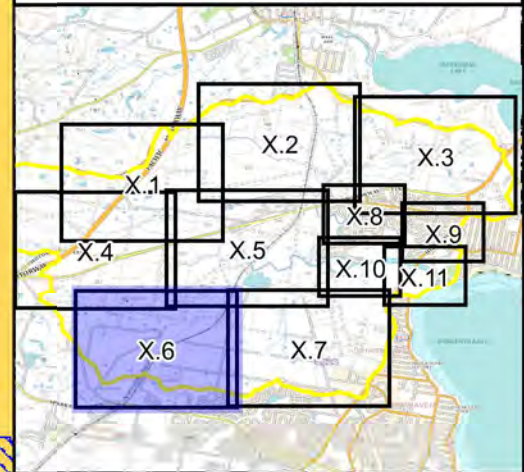
0 0.2 0.4
Km

Figure 17.5:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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Sydney, NSW 2000

File Name: Fig17.5 - ERC for the 1% AEP Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

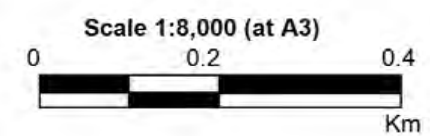
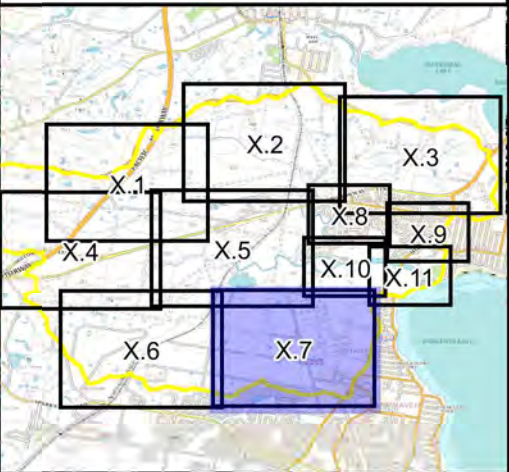
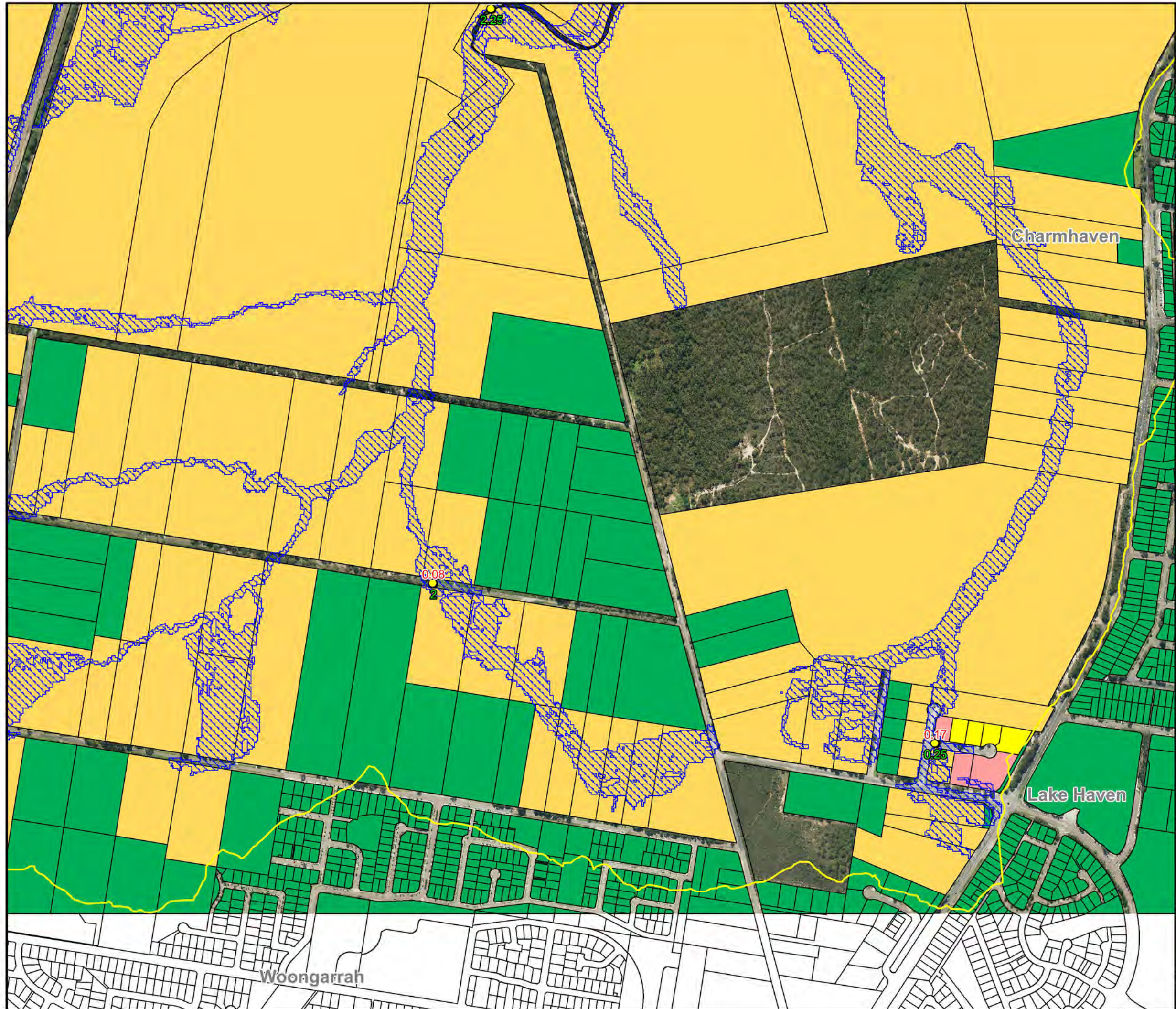


Figure 17.6:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

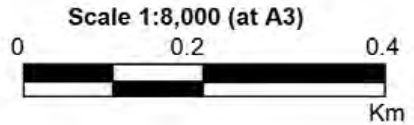
Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

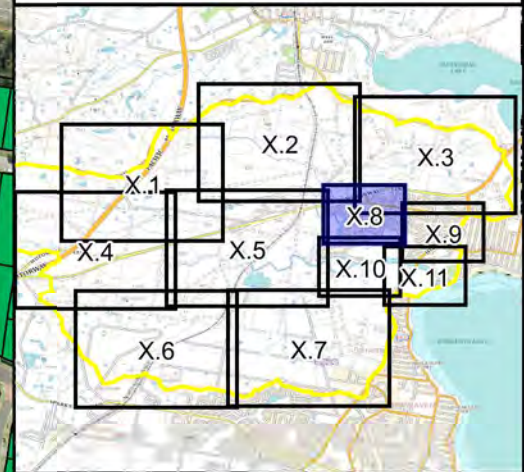
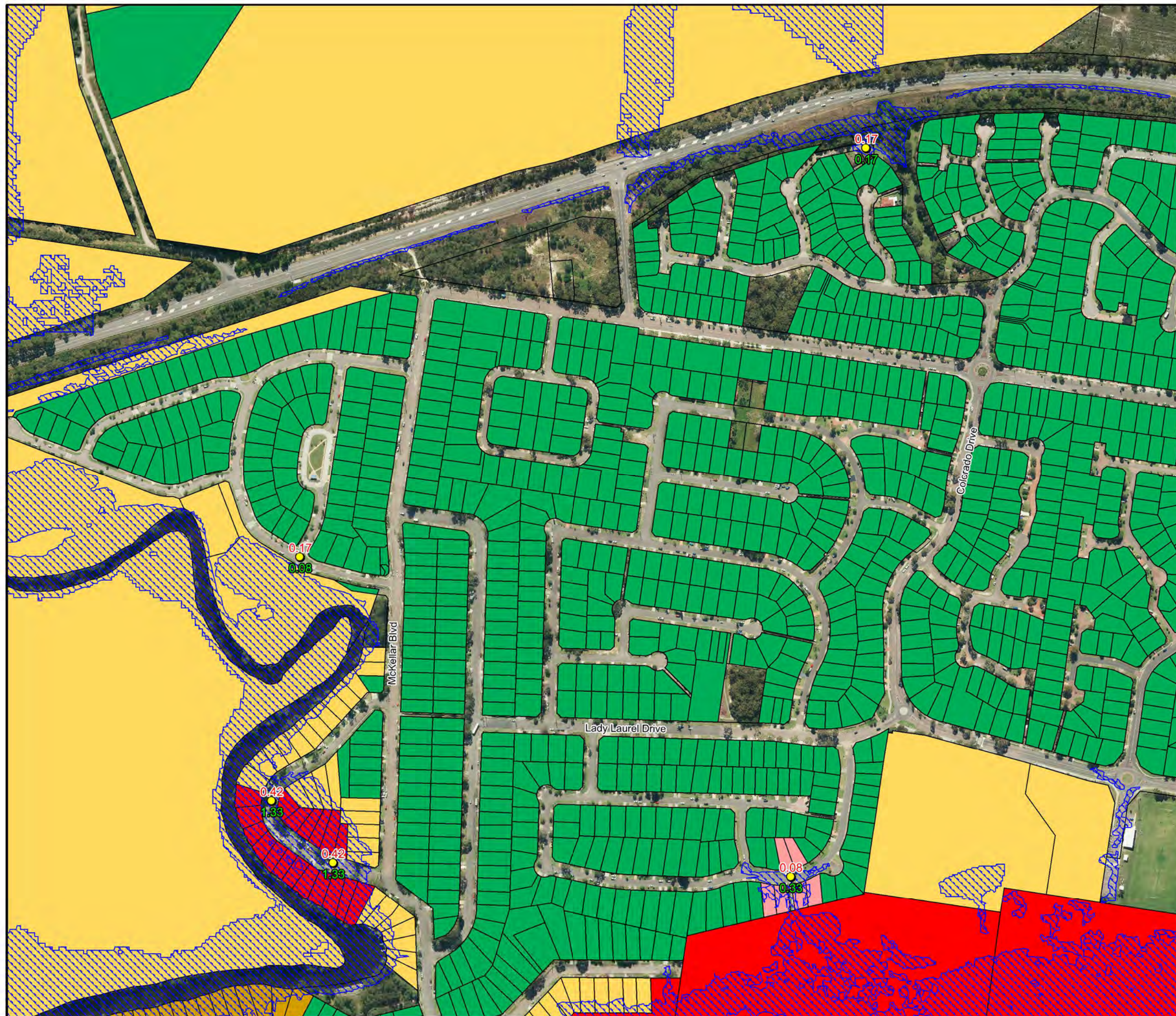
File Name: Fig17.6 - ERC for the 1% AEP Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)





LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)

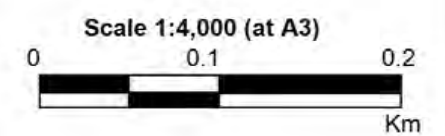


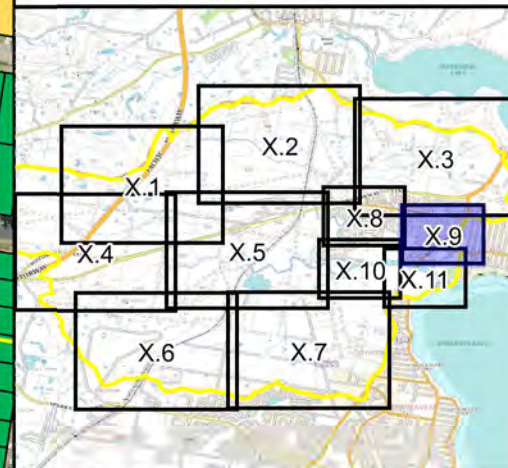
Figure 17.8:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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Sydney, NSW 2000

File Name: Fig17.8 - ERC for the 1% AEP Flood .wor

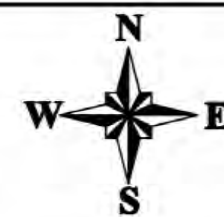


Central
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Council



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Flooded Exit Rising Road
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)




Scale 1:4,000 (at A3)

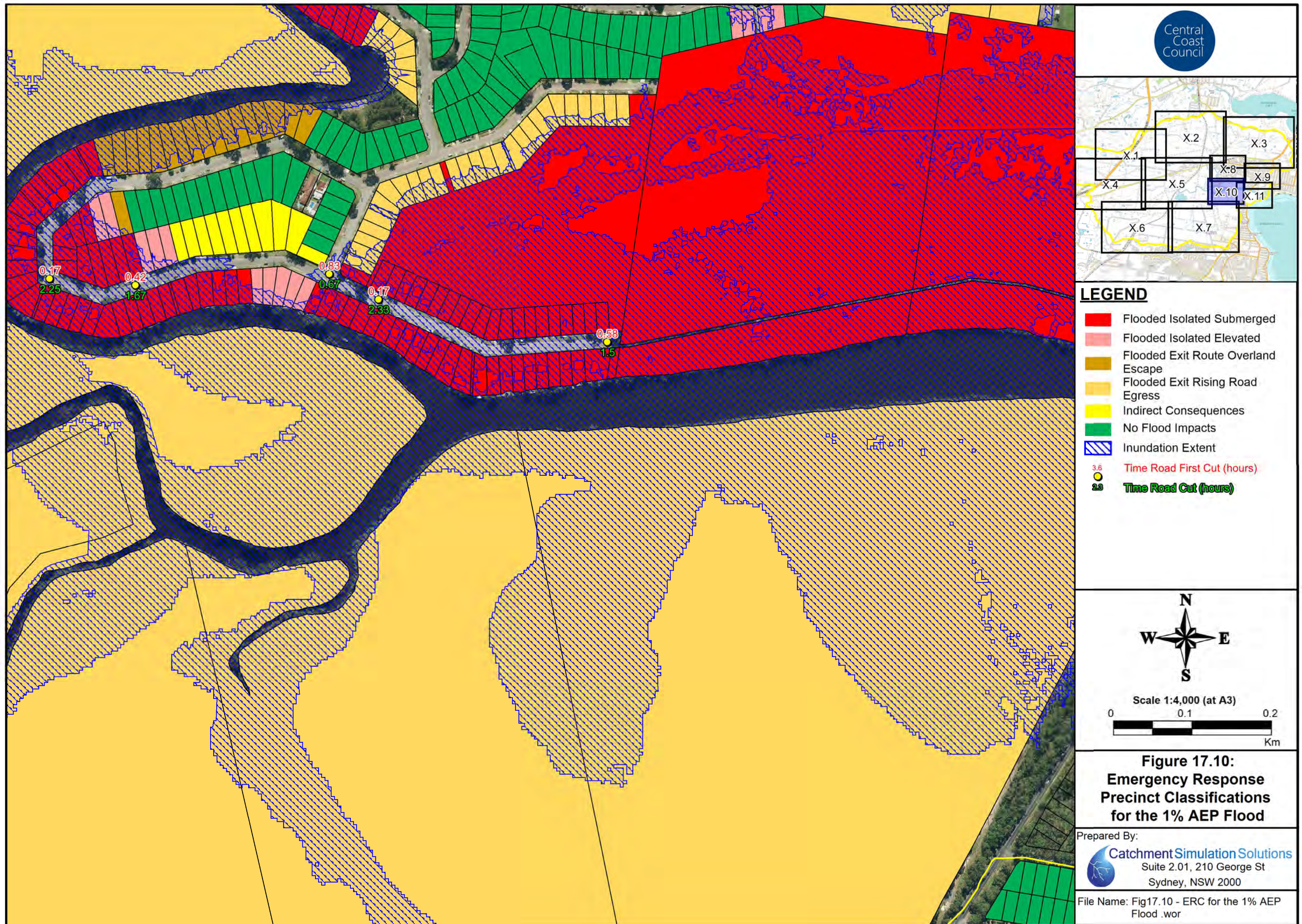
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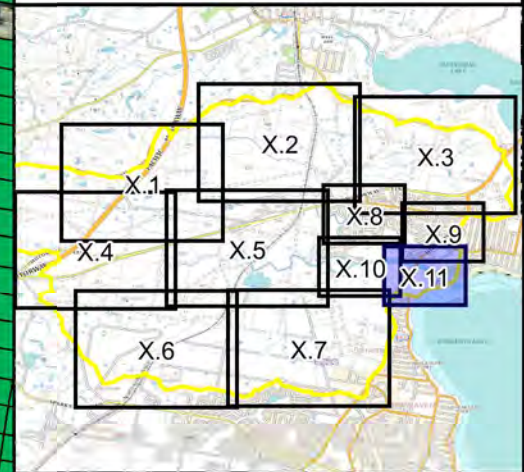
Figure 17.9:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

Prepared By:

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Sydney, NSW 2000

File Name: Fig17.9 - ERC for the 1% AEP
Flood .wor





- LEGEND**
- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
 - Time Road First Cut (hours)
 - Time Road Cut (hours)

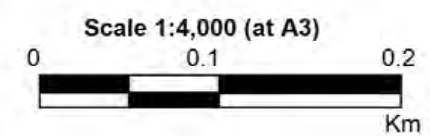
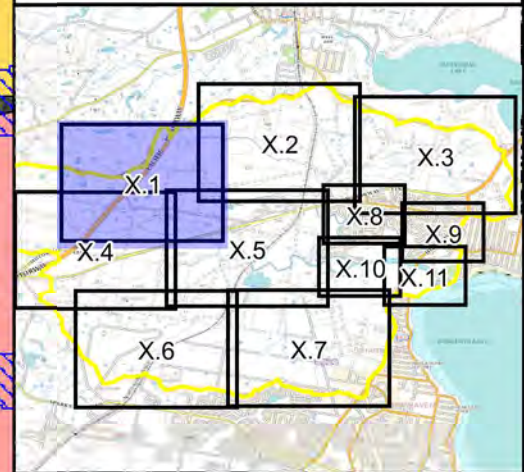
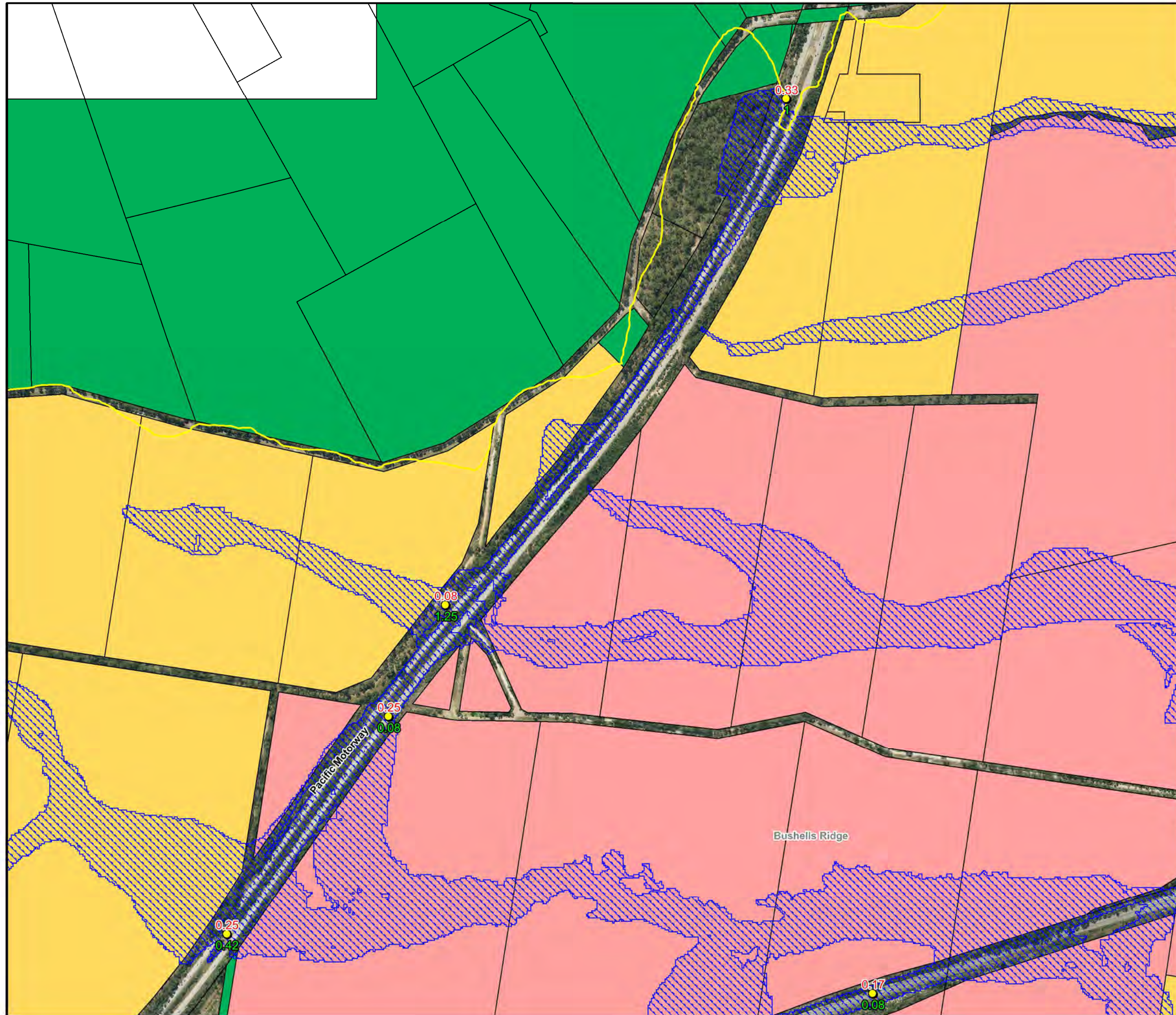


Figure 17.11:
Emergency Response
Precinct Classifications
for the 1% AEP Flood

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 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000
File Name: Fig17.11 - ERC for the 1% AEP Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Escape
- Flooded Exit Rising Road
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

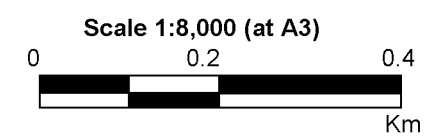
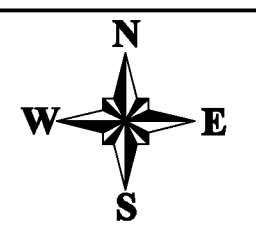
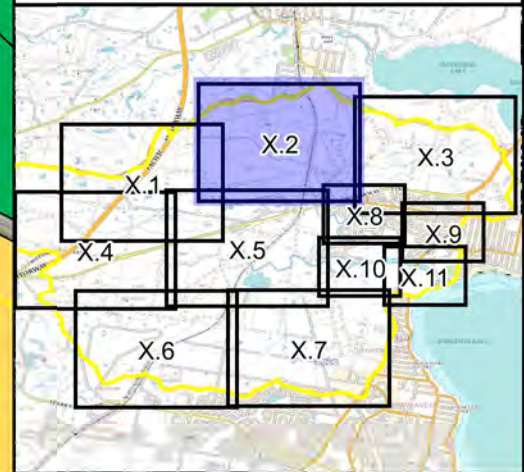
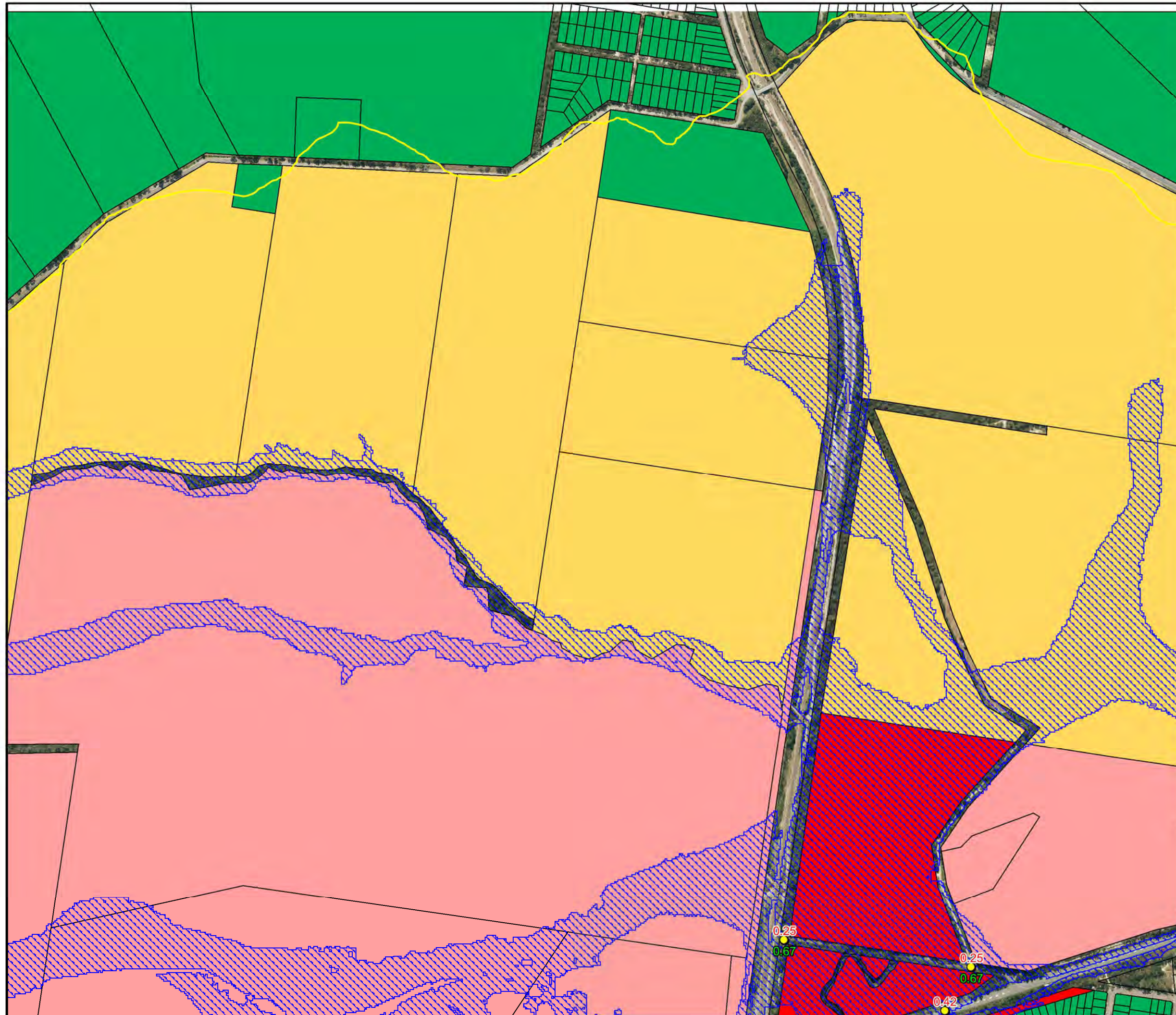


Figure 18.1:
Emergency Response
Precinct Classifications
for the PMF

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 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000
File Name: Fig18.1 - ERC for the PMF
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.9 Time Road Cut (hours)

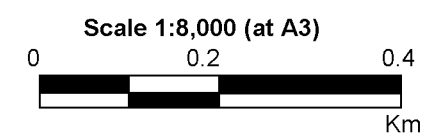
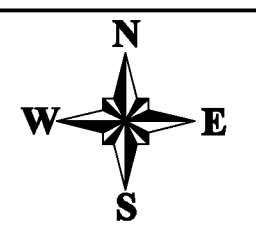
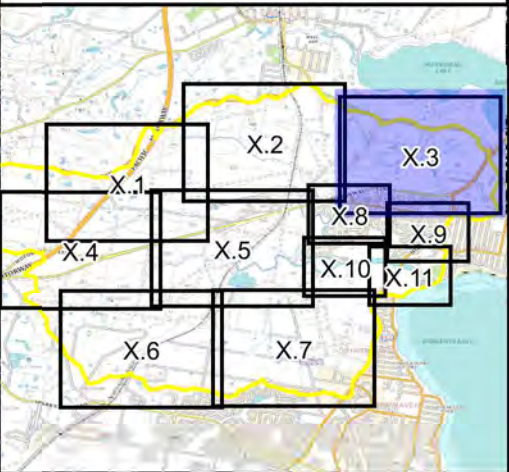
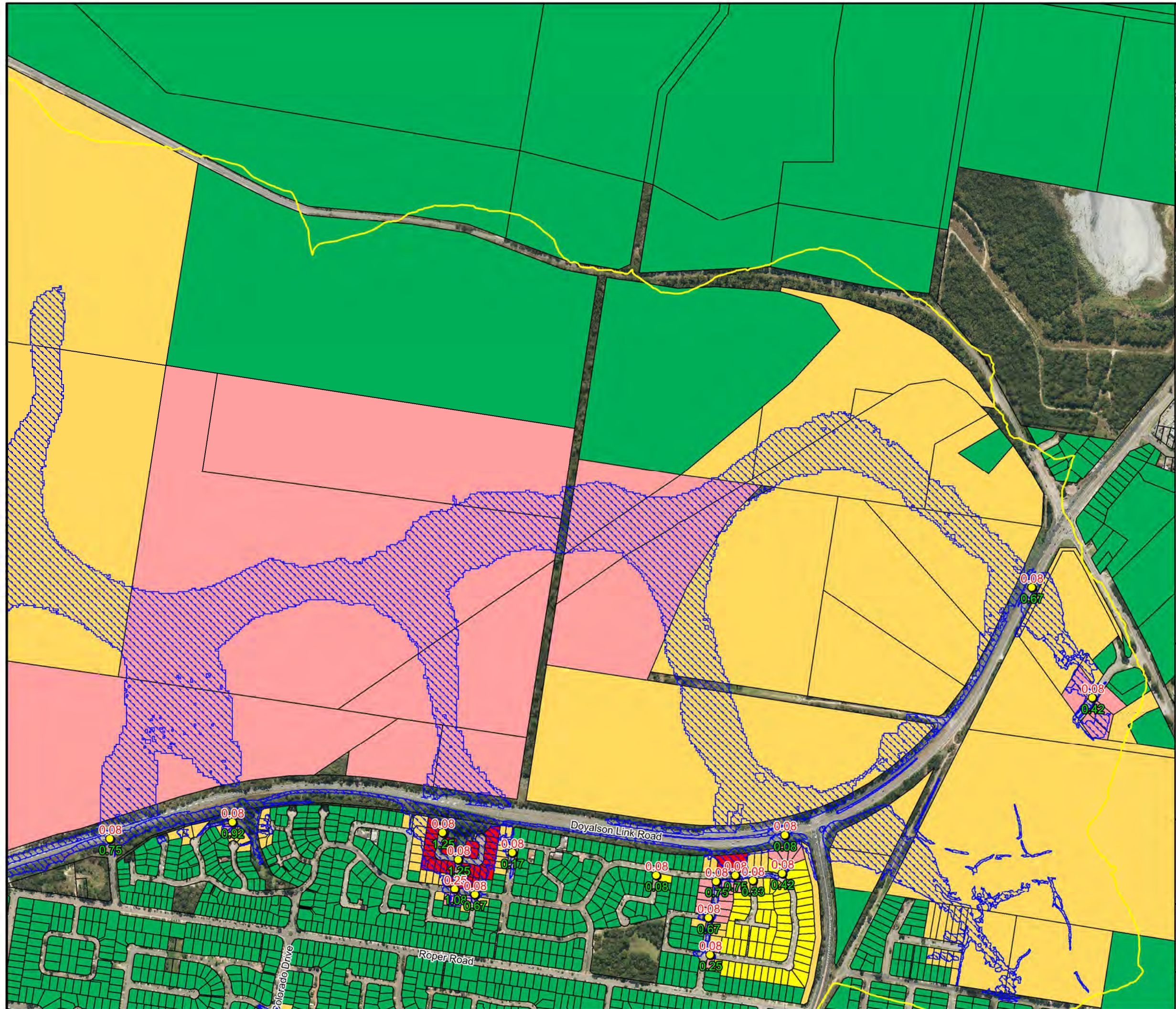


Figure 18.2:
Emergency Response
Precinct Classifications
for the PMF

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 Catchment Simulation Solutions
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Sydney, NSW 2000

File Name: Fig18.2 - ERC for the PMF
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Escape
- Flooded Exit Rising Road
- Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

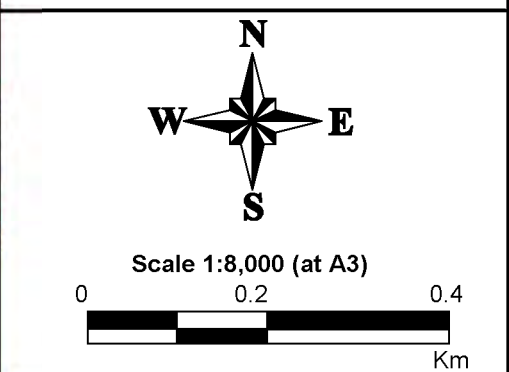
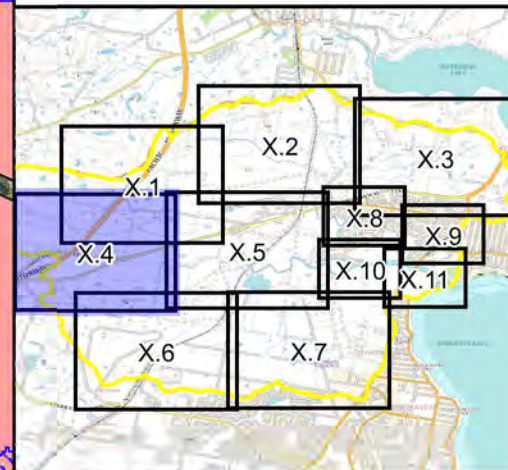
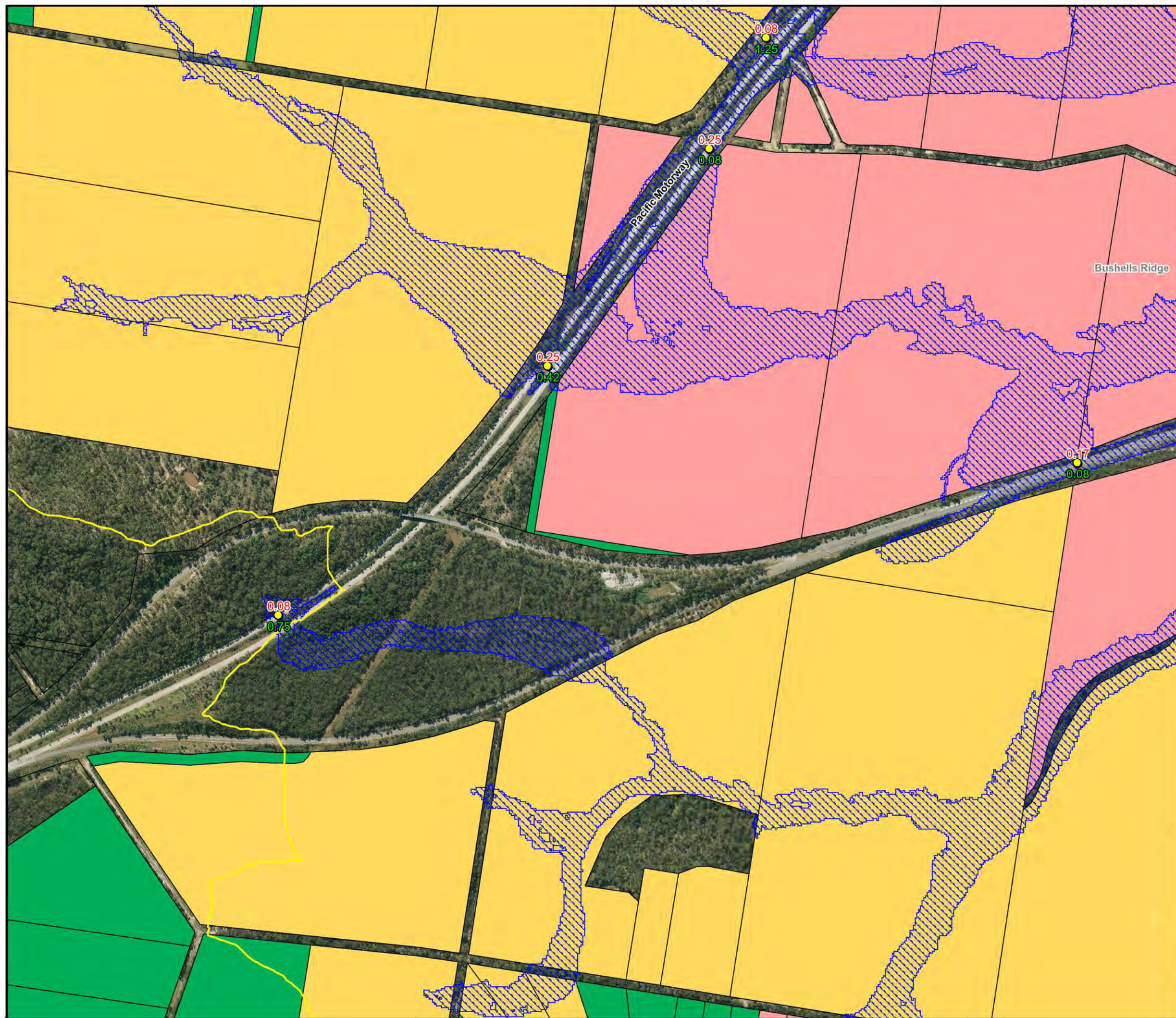


Figure 18.3:
Emergency Response
Precinct Classifications
for the PMF

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Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.3 - ERC for the PMF
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Flooded Exit Rising Road
- Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.5 Time Road Cut (hours)

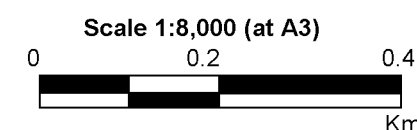
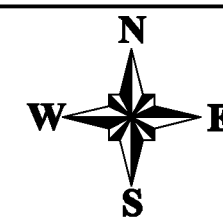
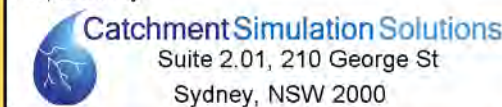
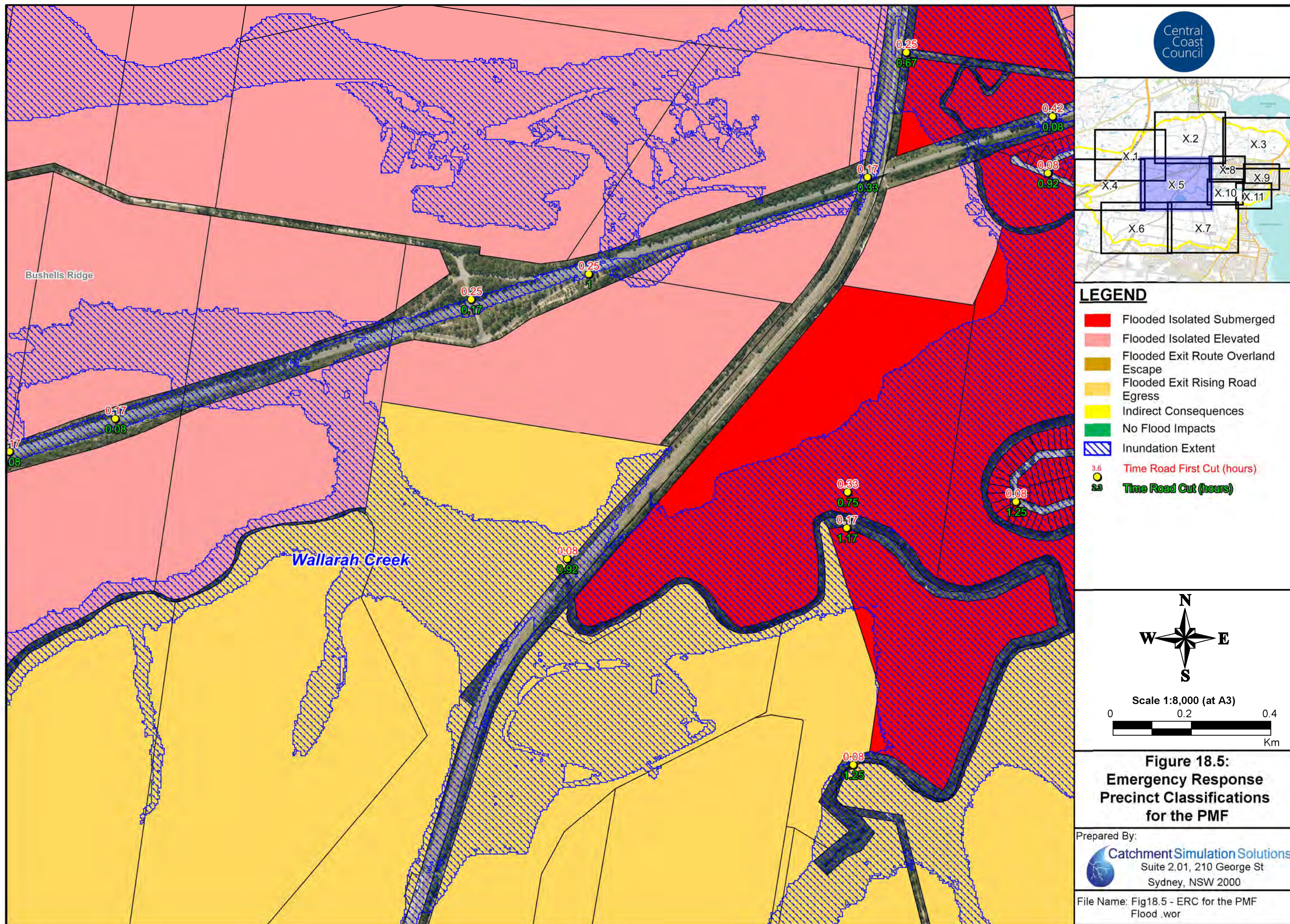


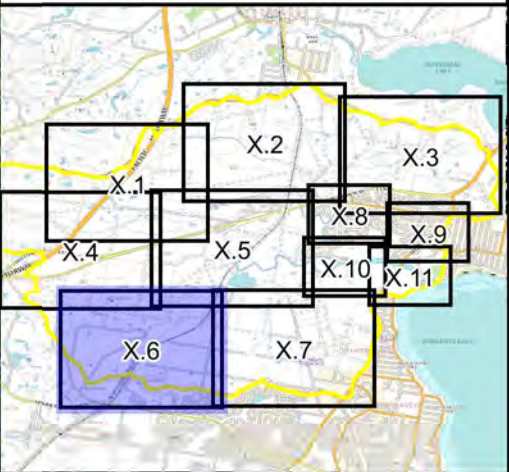
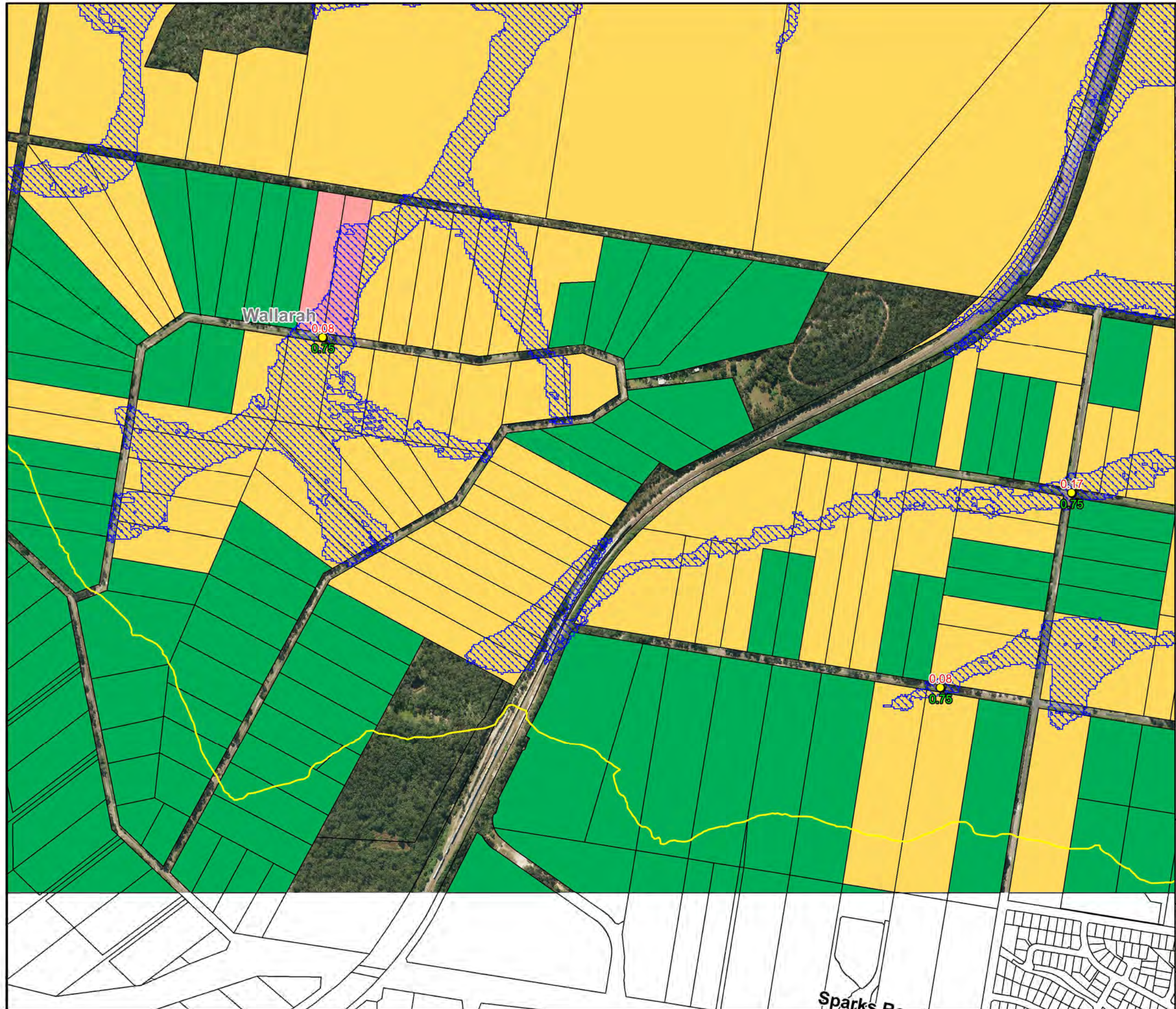
Figure 18.4:
Emergency Response
Precinct Classifications
for the PMF

Prepared By:



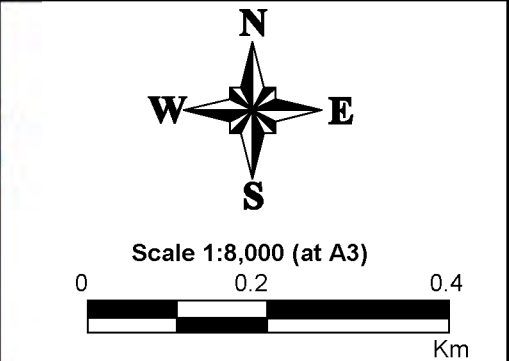
File Name: Fig18.4 - ERC for the PMF
Flood .wor

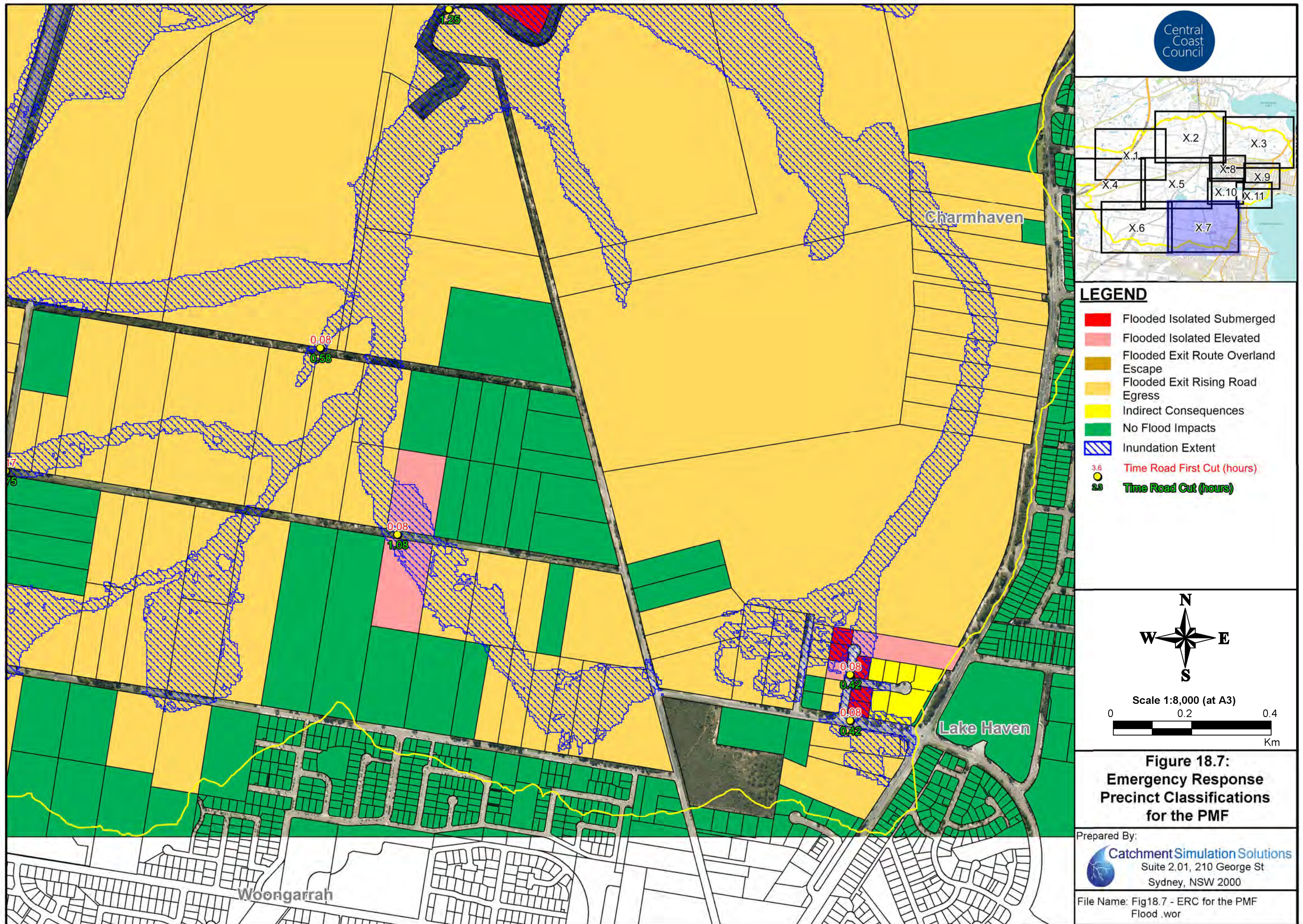


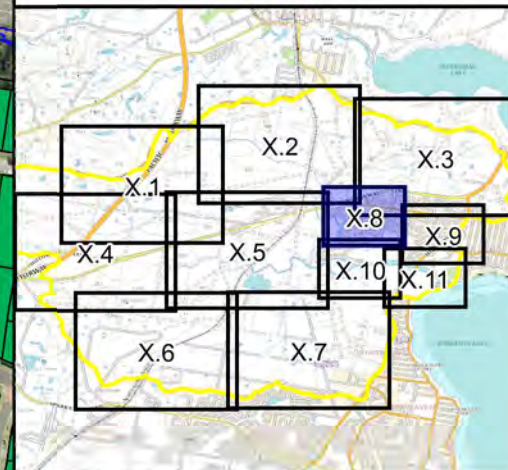
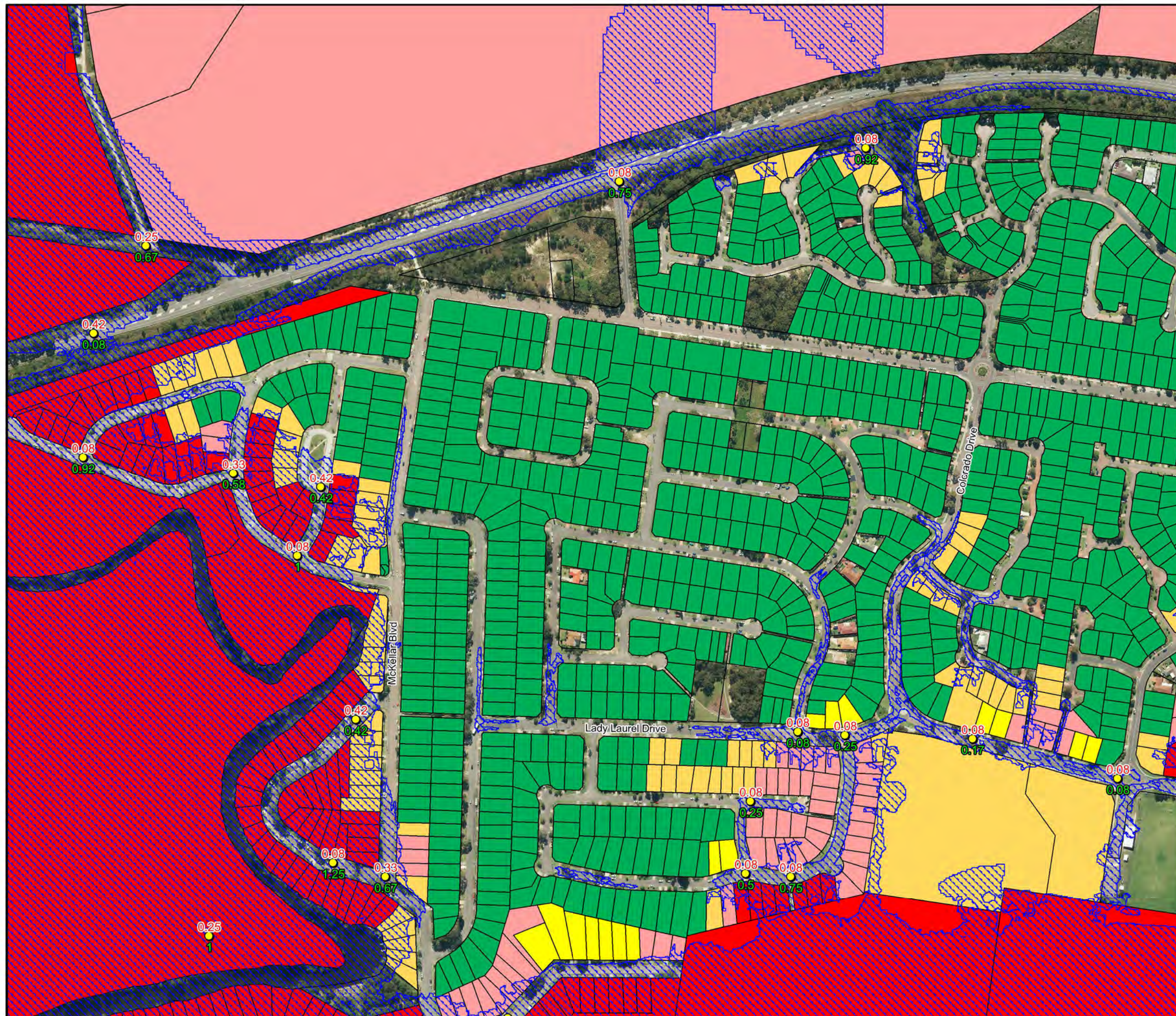


LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

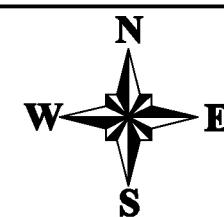






LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.5 Time Road Cut (hours)




Scale 1:4,000 (at A3)

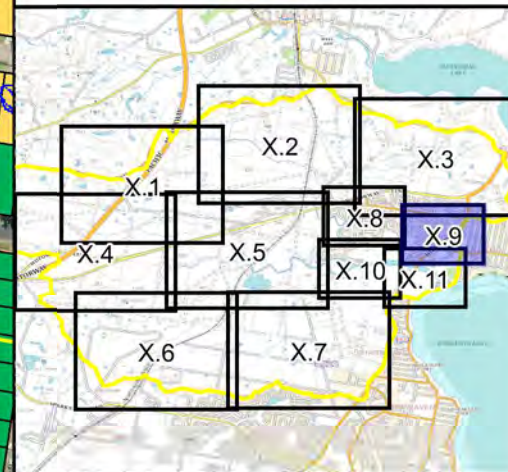
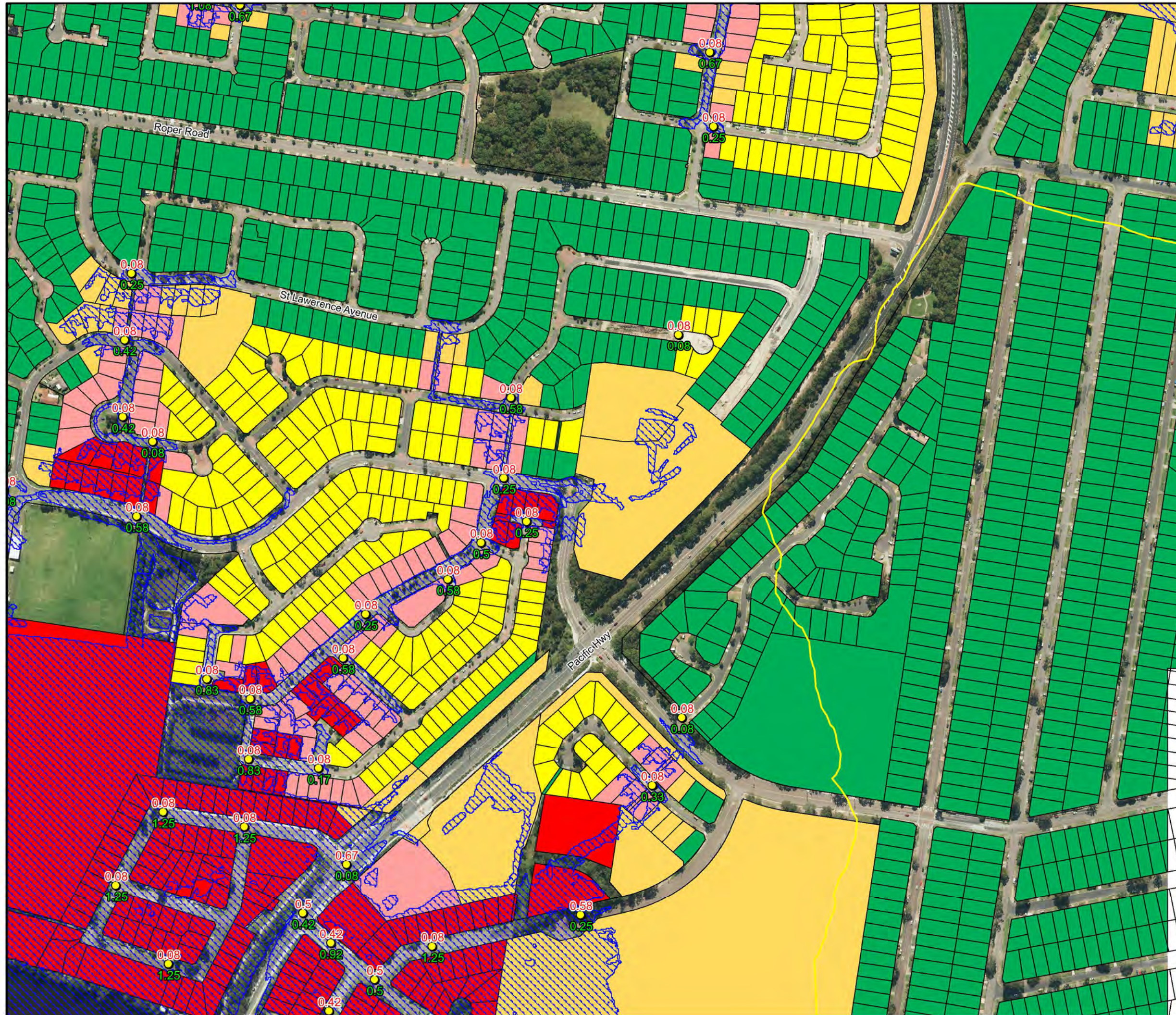
0 0.1 0.2 Km

Figure 18.8:
Emergency Response
Precinct Classifications
for the PMF

Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.8 - ERC for the PMF
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland
- Escape
- Flooded Exit Rising Road
- Indirect Consequences
- No Flood Impacts
- ▨ Inundation Extent
- Time Road First Cut (hours)
- Time Road Cut (hours)

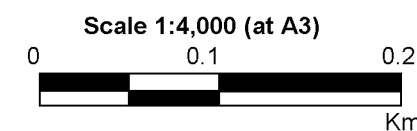
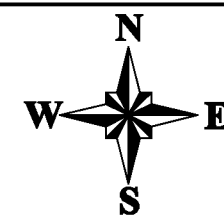
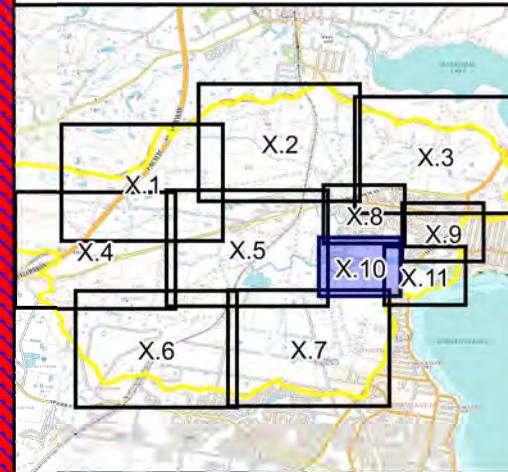
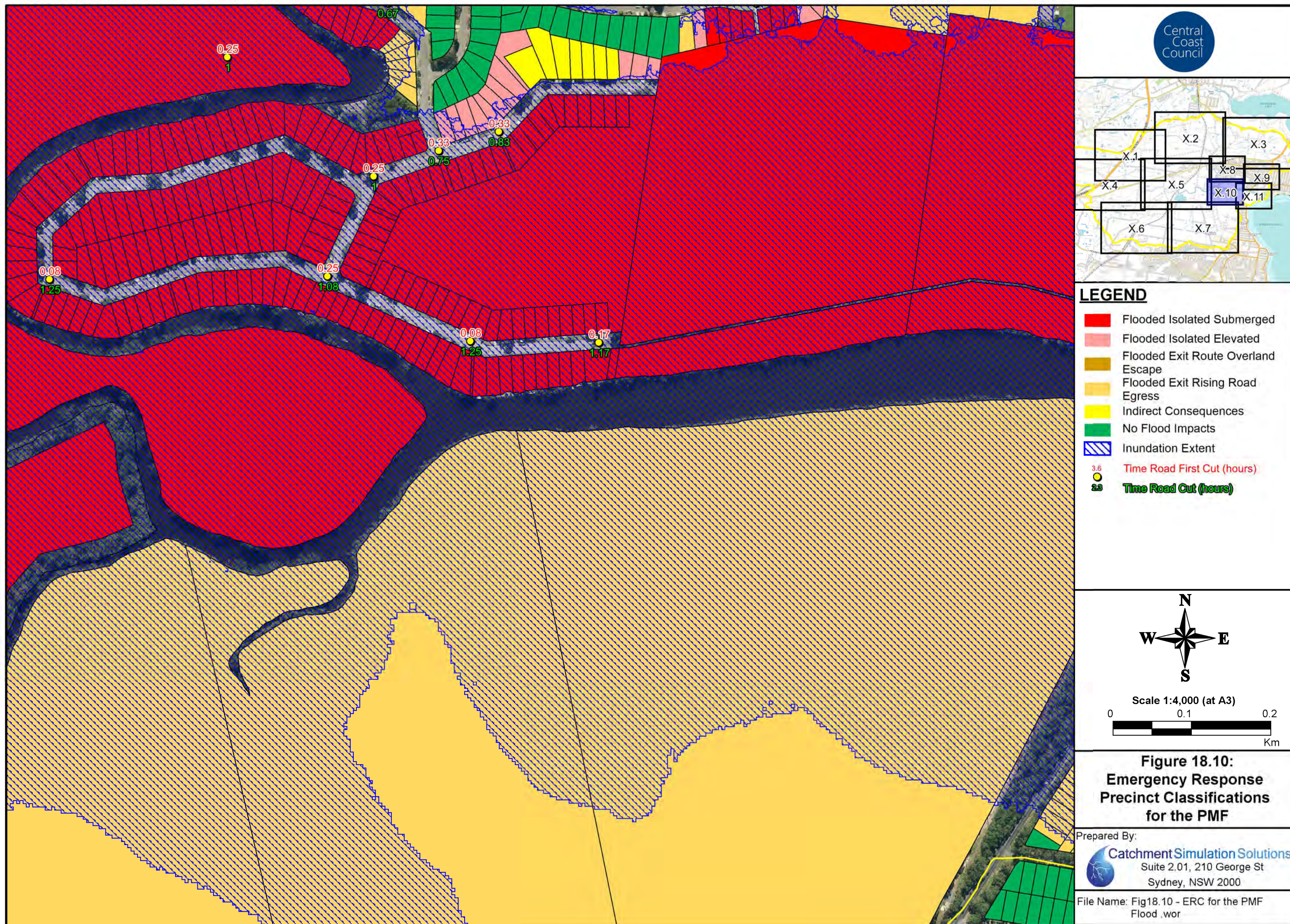


Figure 18.9:
Emergency Response
Precinct Classifications
for the PMF

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.9 - ERC for the PMF
Flood .wor



- LEGEND**
- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
 - Time Road First Cut (hours)**
 - Time Road Cut (hours)**

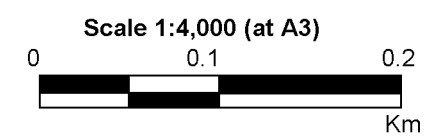
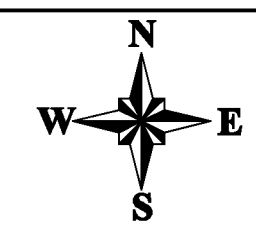
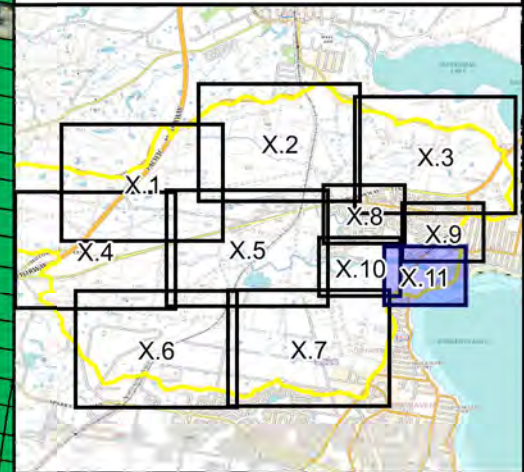


Figure 18.10:
Emergency Response
Precinct Classifications
for the PMF

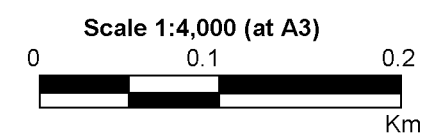
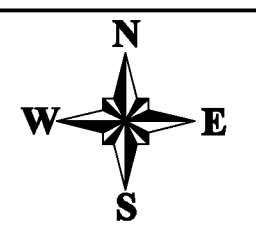
Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.10 - ERC for the PMF
Flood .wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- 3.6 Time Road First Cut (hours)
- 2.5 Time Road Cut (hours)



**Figure 18.11:
Emergency Response
Precinct Classifications
for the PMF**

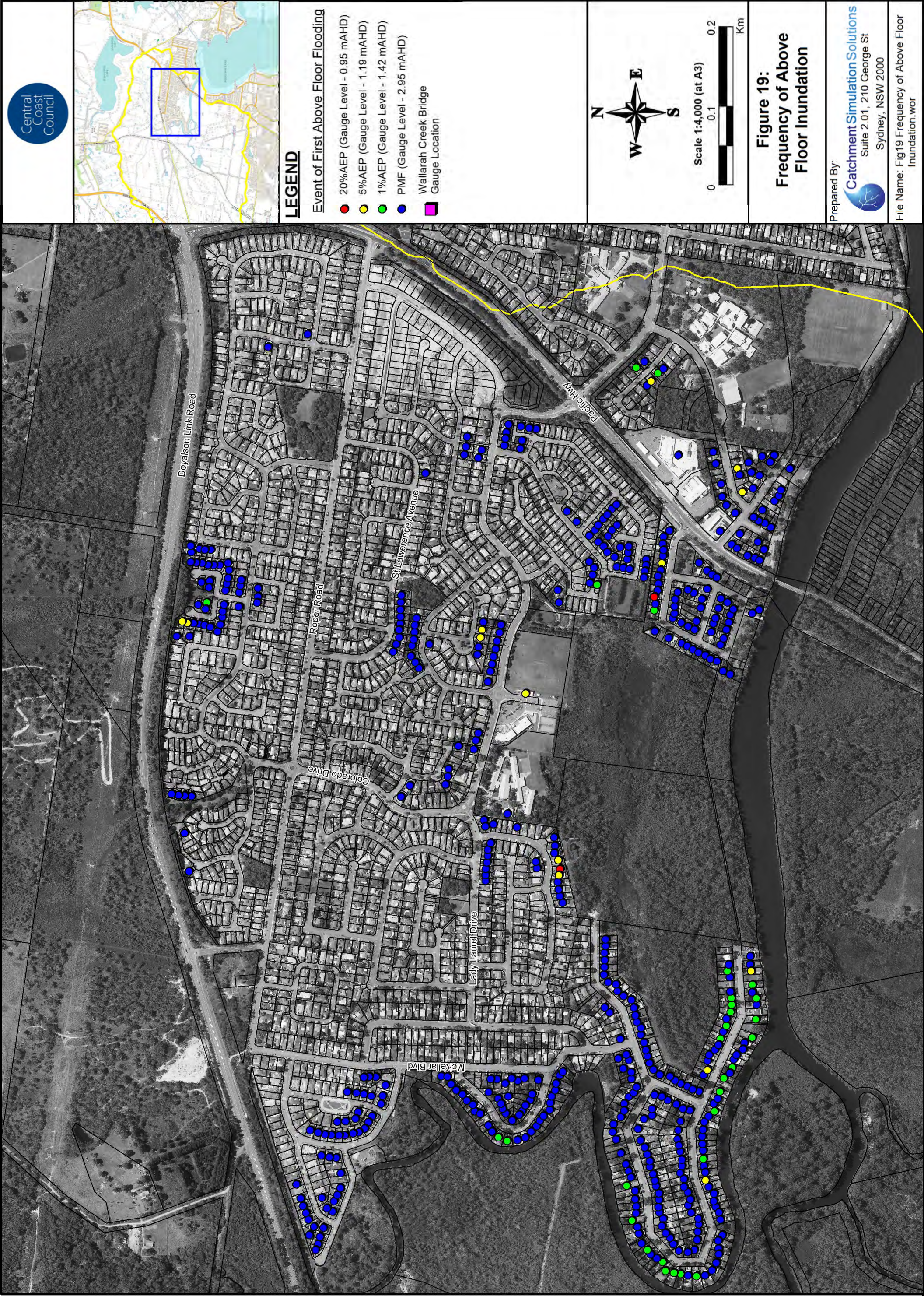
Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

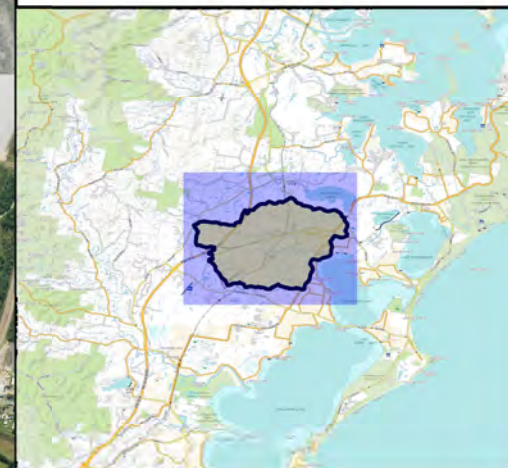
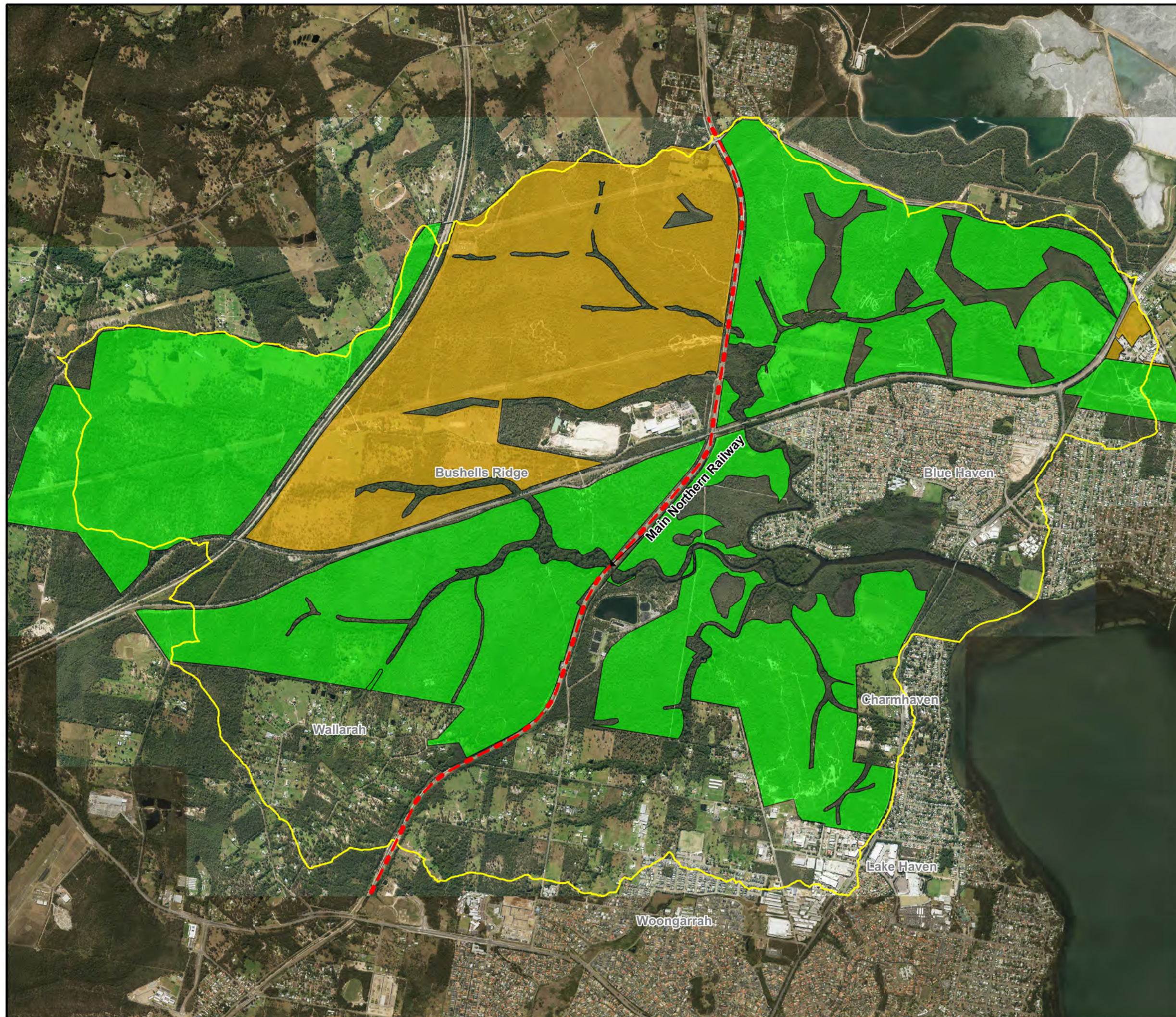
File Name: Fig18.11 - ERC for the PMF
Flood .wor



MISCELLANEOUS MAPS







LEGEND

Potential Areas of
Future Urban Development


- RU6
- IN1



Scale 1:28,000 (at A3)
0 0.5 1.0
Km

**Figure 20:
Potential Future
Catchment Land Use**

Prepared By:

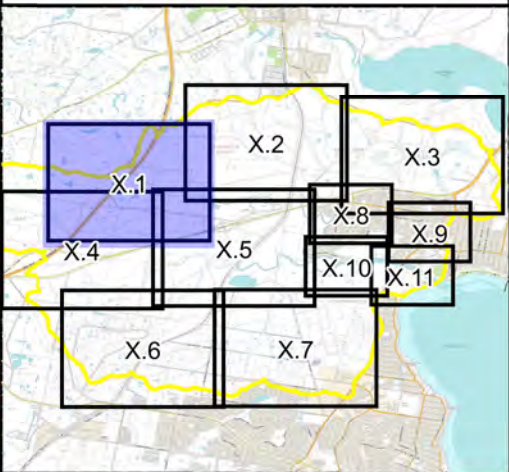
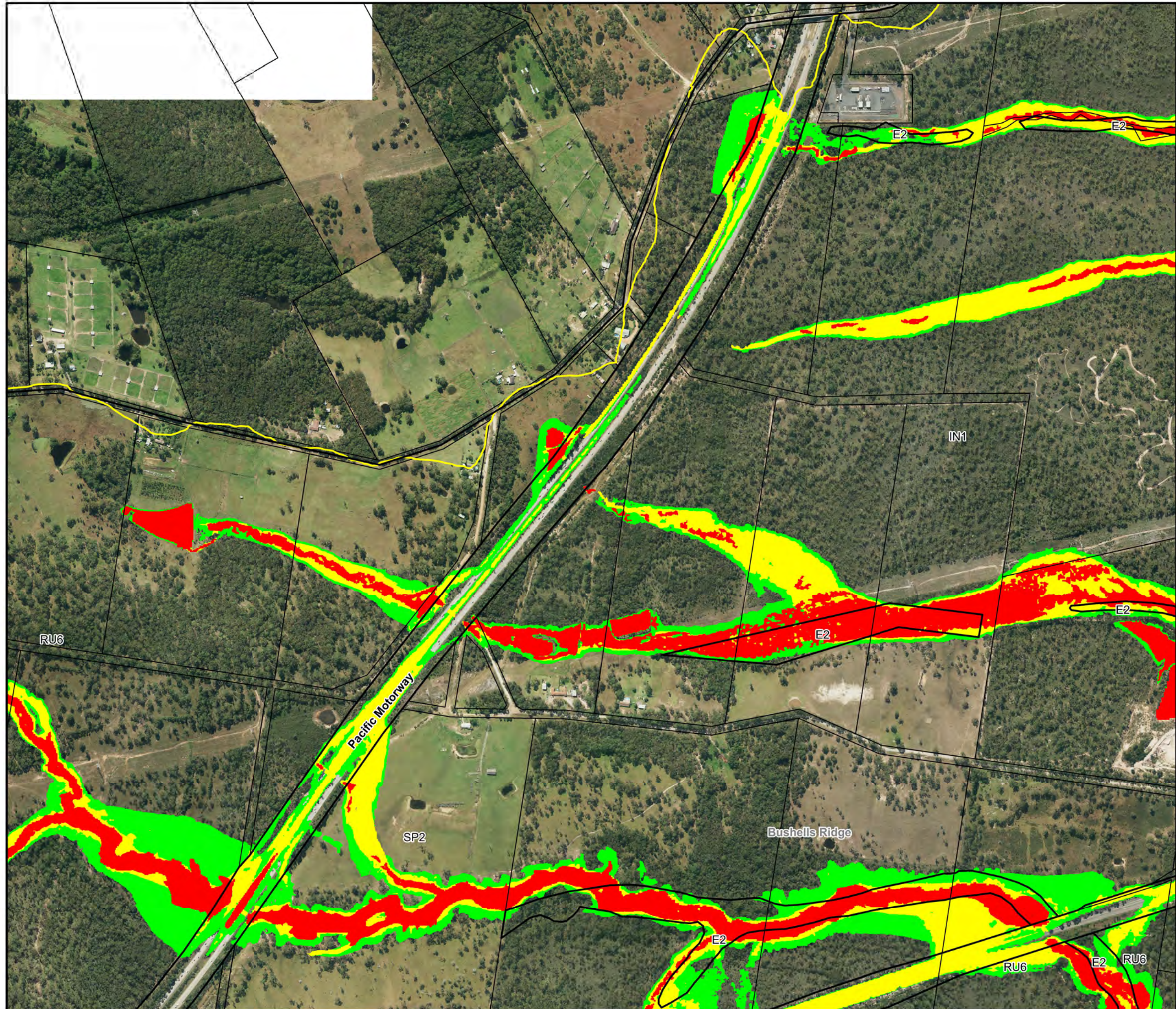
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig20 - Potential Future
Catchment Land Use.wor



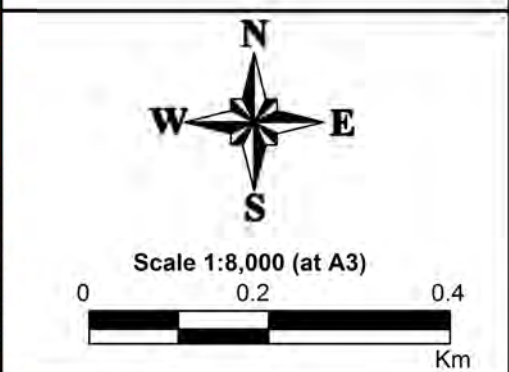
FLOOD PLANNING MAPS





LEGEND

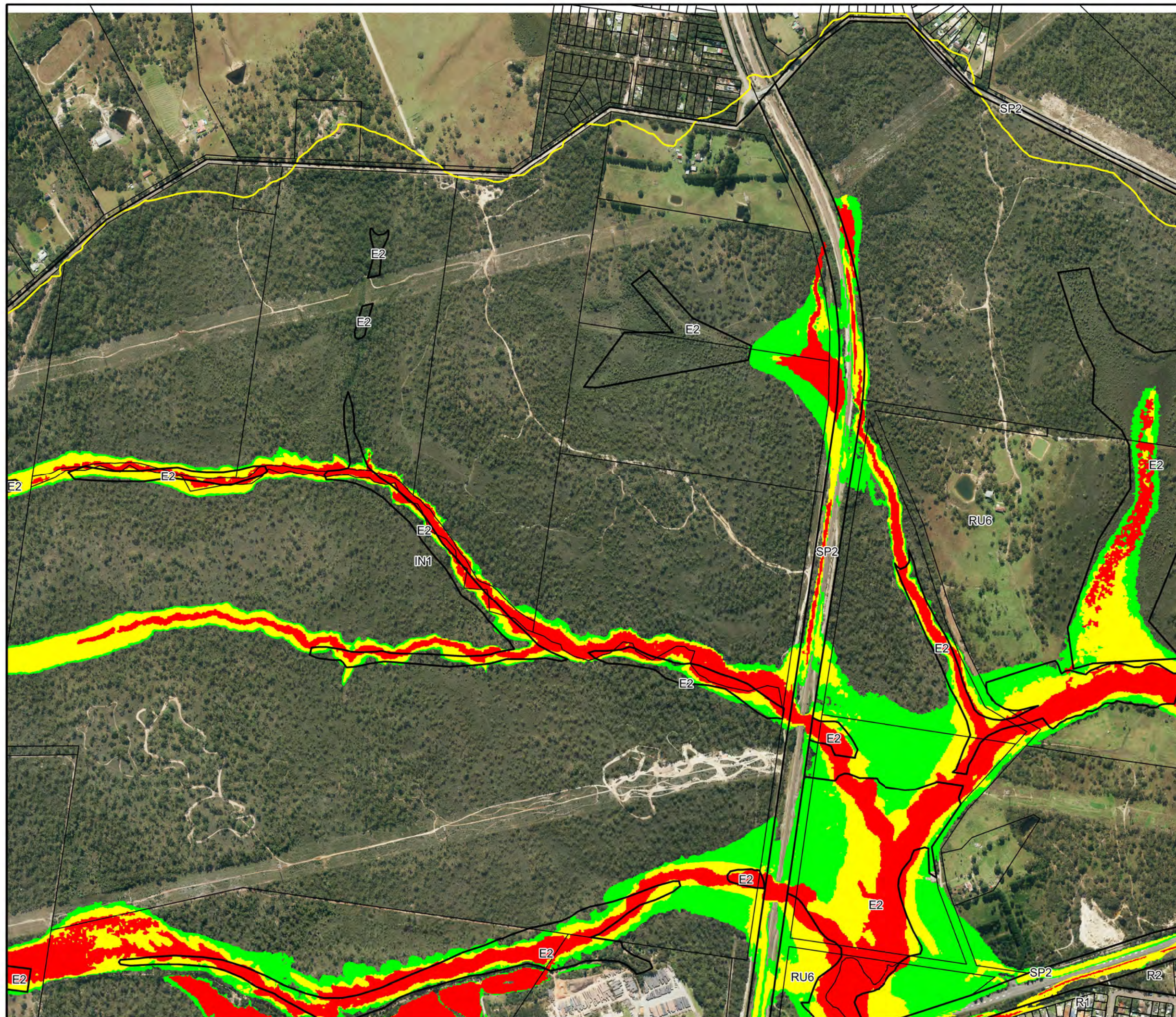
- Category 1
- Category 2
- Category 3
- Category 4
- Land Zone Extent



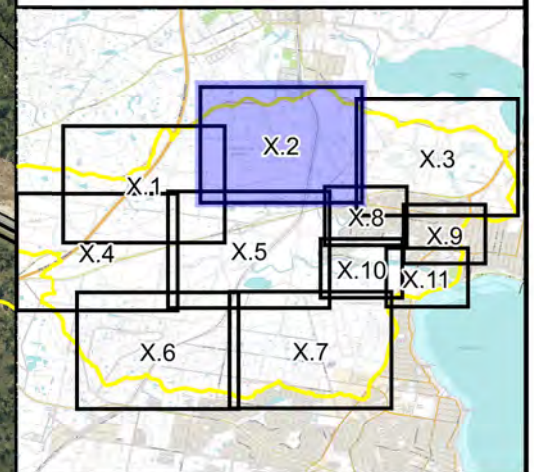
**Figure 21.1:
Flood Planning
Constraint Categories**

Prepared By:
CatchmentSimulationSolutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.1 - Flood Planning
Constraint Categories.wor

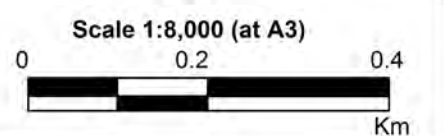


Central
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Council



LEGEND

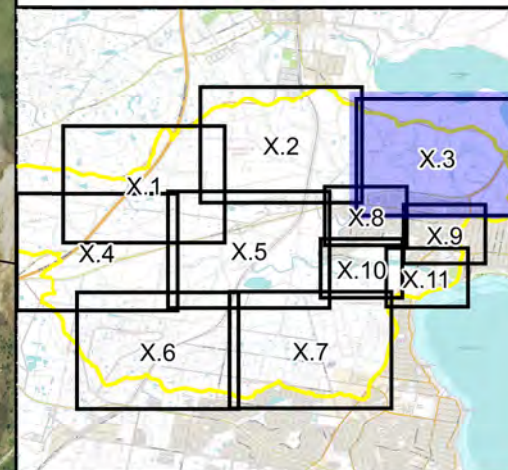
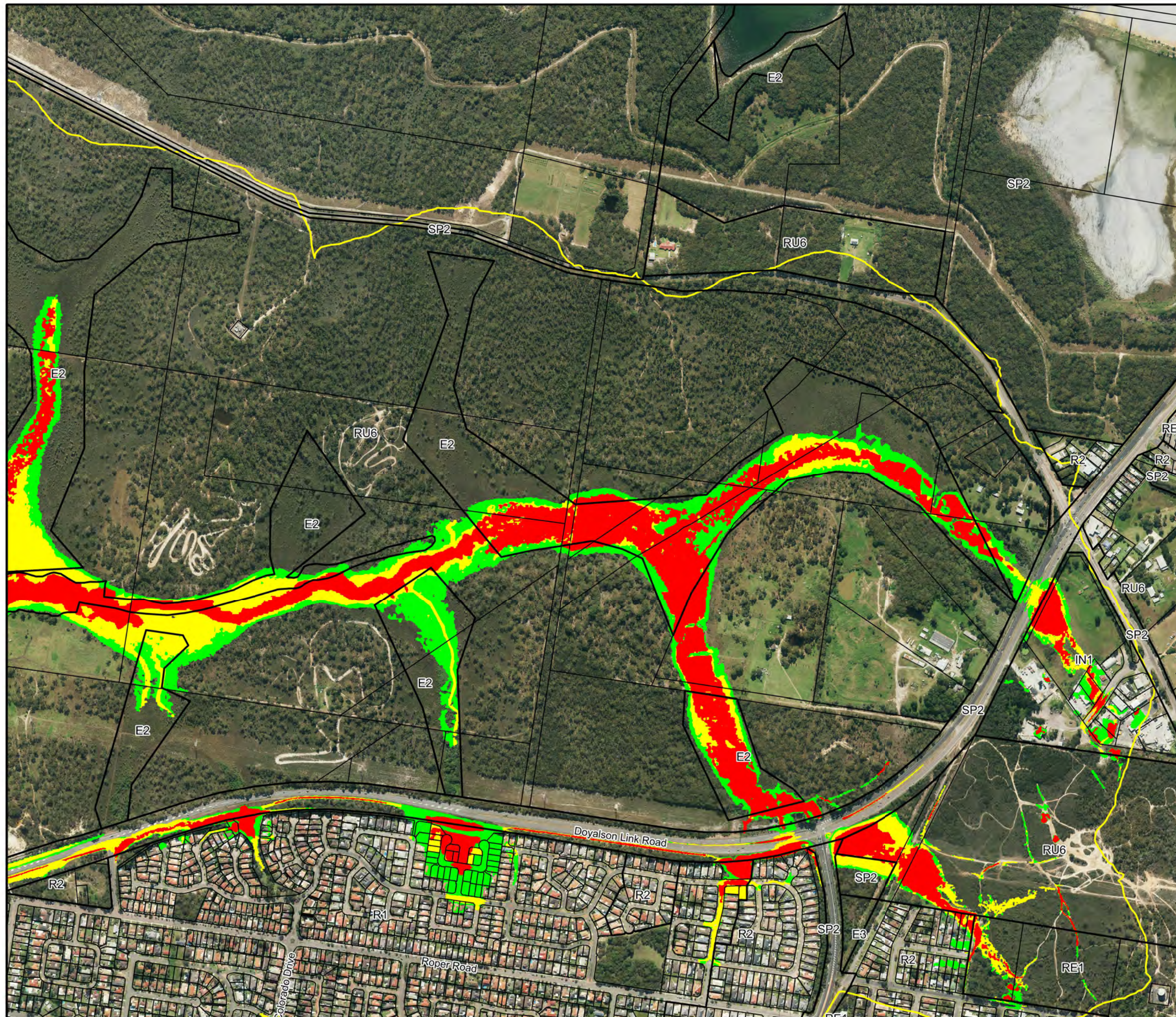
- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent



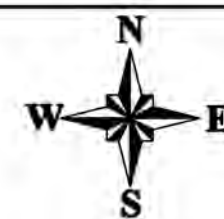
**Figure 21.2:
Flood Planning
Constraint Categories**

Prepared By:
CatchmentSimulationSolutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.2 - Flood Planning
Constraint Categories.wor



- LEGEND**
- Category 1
 - Category 2
 - Category 3
 - Category 4
 - R2 Land Zone Extent



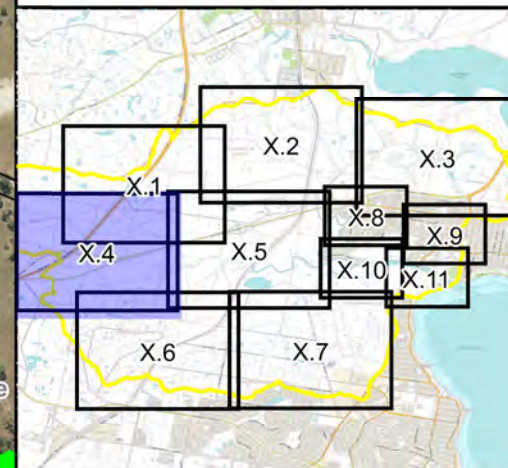
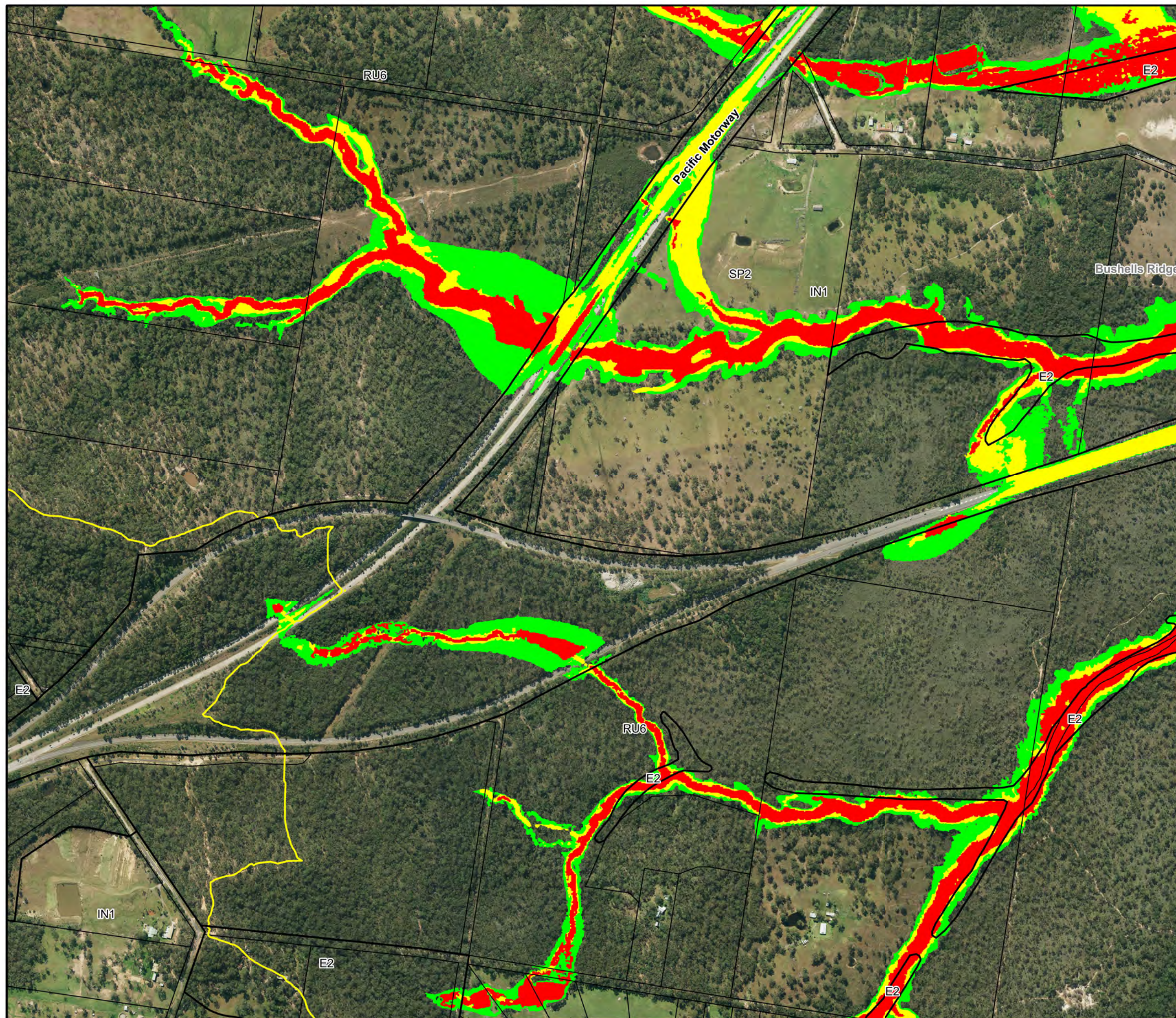
Scale 1:8,000 (at A3)

0 0.2 0.4 Km

**Figure 21.3:
Flood Planning
Constraint Categories**

Prepared By:
CatchmentSimulationSolutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.3 - Flood Planning
Constraint Categories.wor



LEGEND

- Category 1
- Category 2
- Category 3
- Category 4
- Land Zone Extent



Scale 1:8,000 (at A3)

0 0.2 0.4

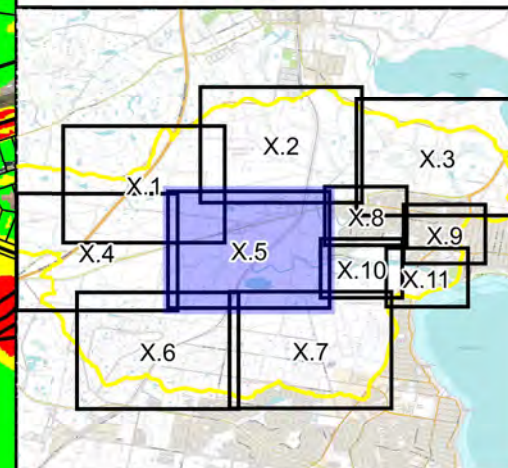
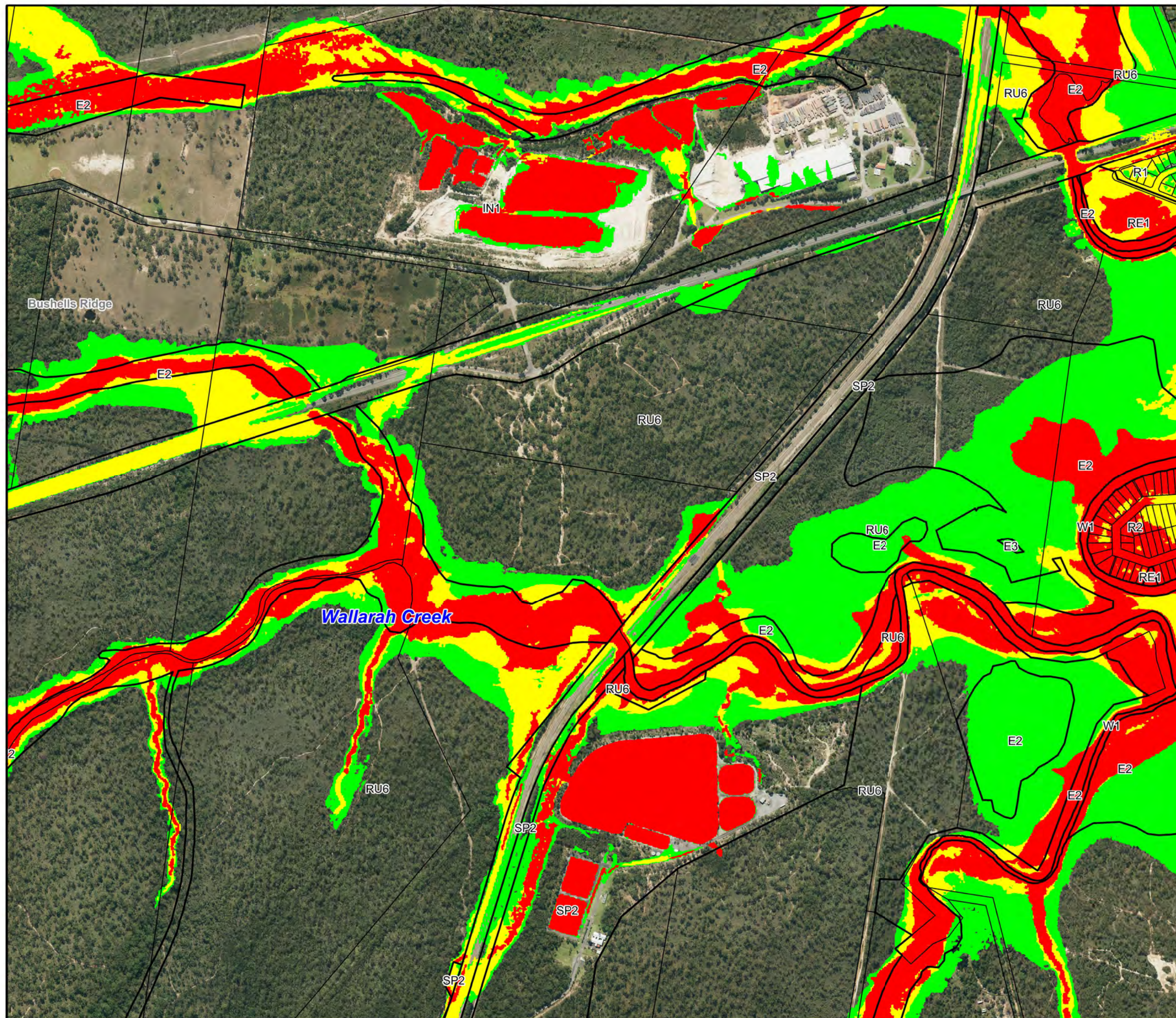
Km

Figure 21.4:
Flood Planning
Constraint Categories

Prepared By:

 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.4 - Flood Planning
Constraint Categories.wor



LEGEND

- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent




Scale 1:8,000 (at A3)

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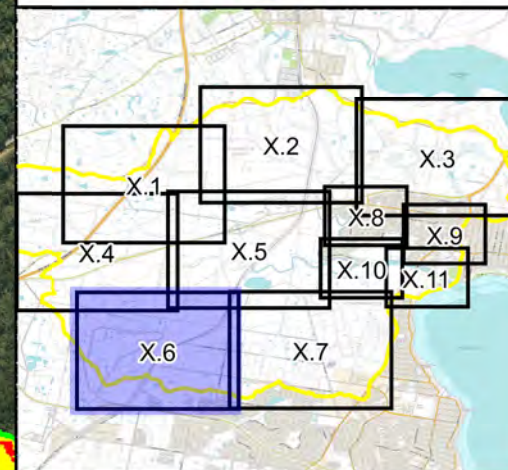
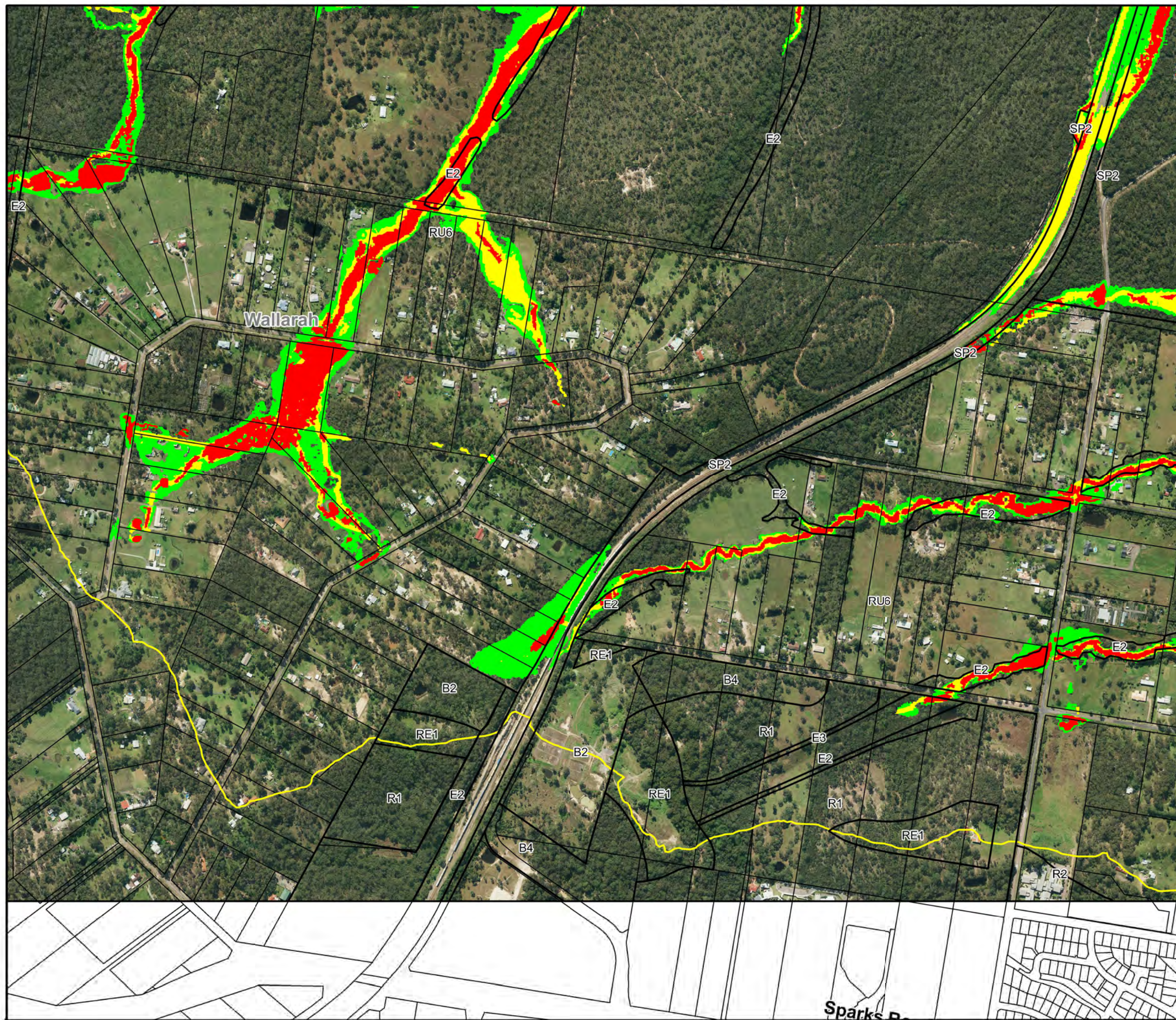
Km

Figure 21.5:
Flood Planning
Constraint Categories

Prepared By:

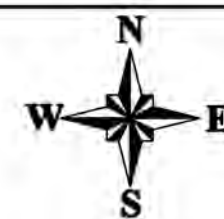
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.5 - Flood Planning
Constraint Categories.wor



LEGEND

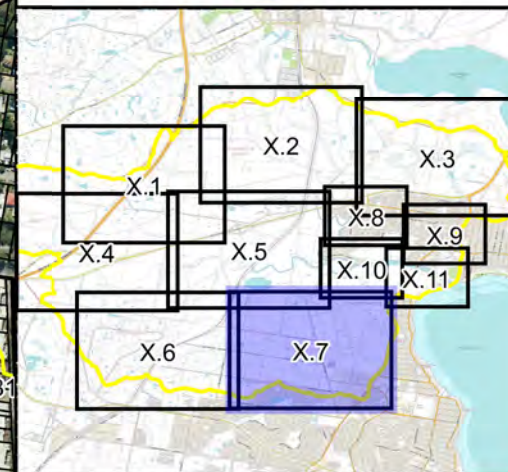
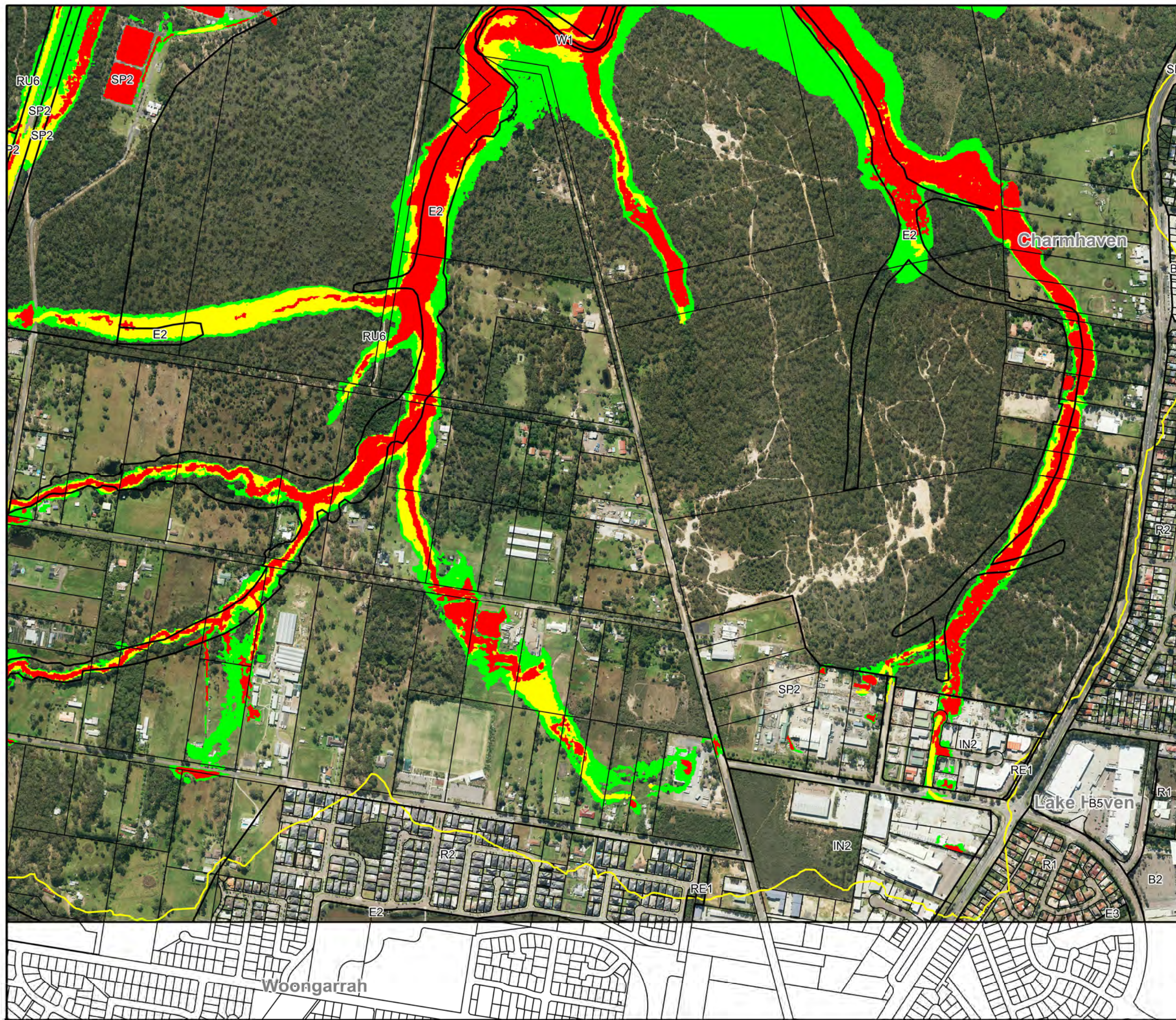
- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent



Scale 1:8,000 (at A3)

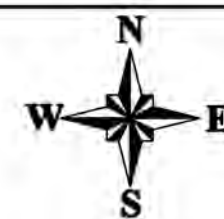
0 0.2 0.4 Km

Figure 21.6:
Flood Planning
Constraint Categories



LEGEND

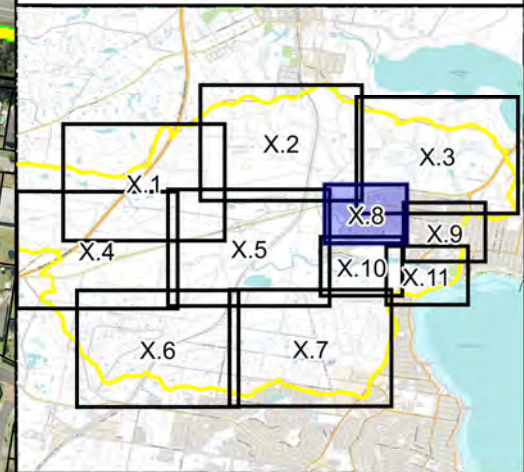
- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent



Scale 1:8,000 (at A3)

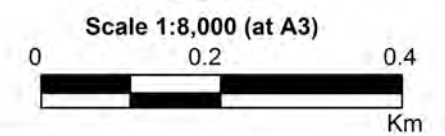
0 0.2 0.4 Km

Figure 21.7:
Flood Planning
Constraint Categories



LEGEND

- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent



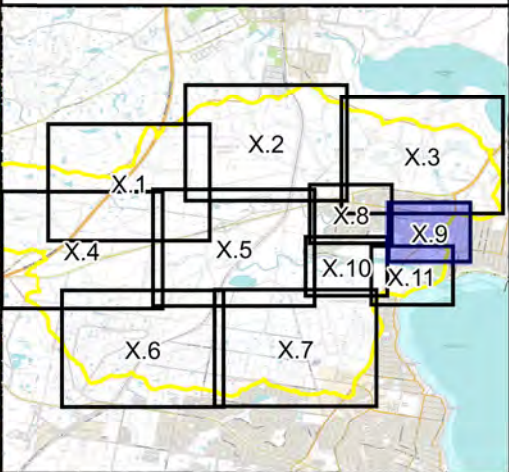
**Figure 21.8:
Flood Planning
Constraint Categories**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.8 - Flood Planning
Constraint Categories.wor



Central Coast Council



- LEGEND**
- Category 1
 - Category 2
 - Category 3
 - Category 4
 - R2 Land Zone Extent



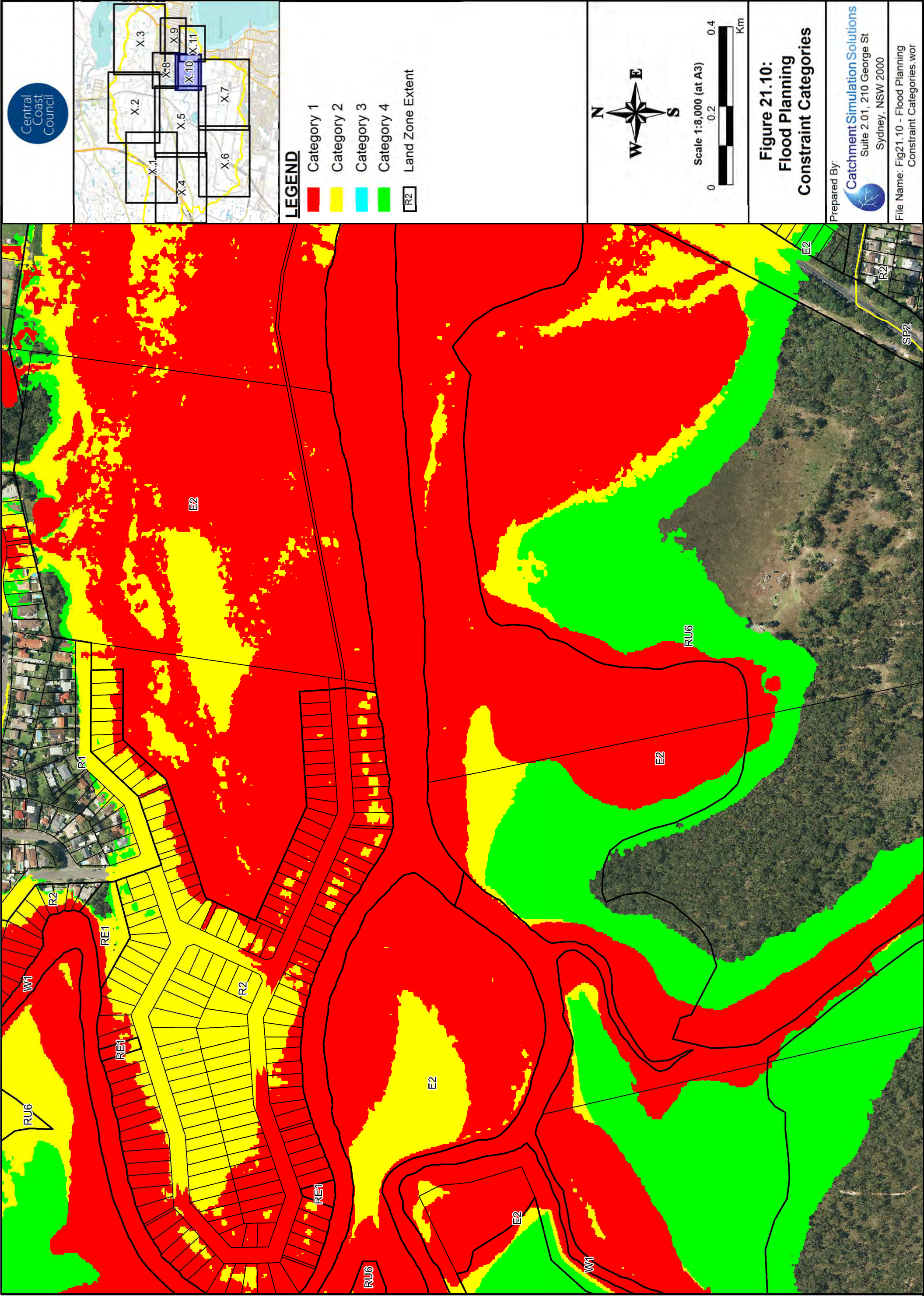
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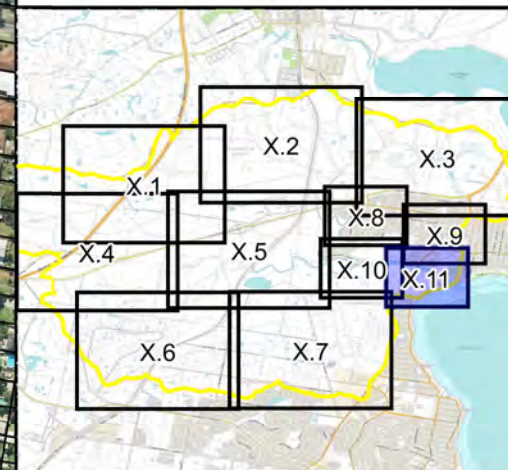
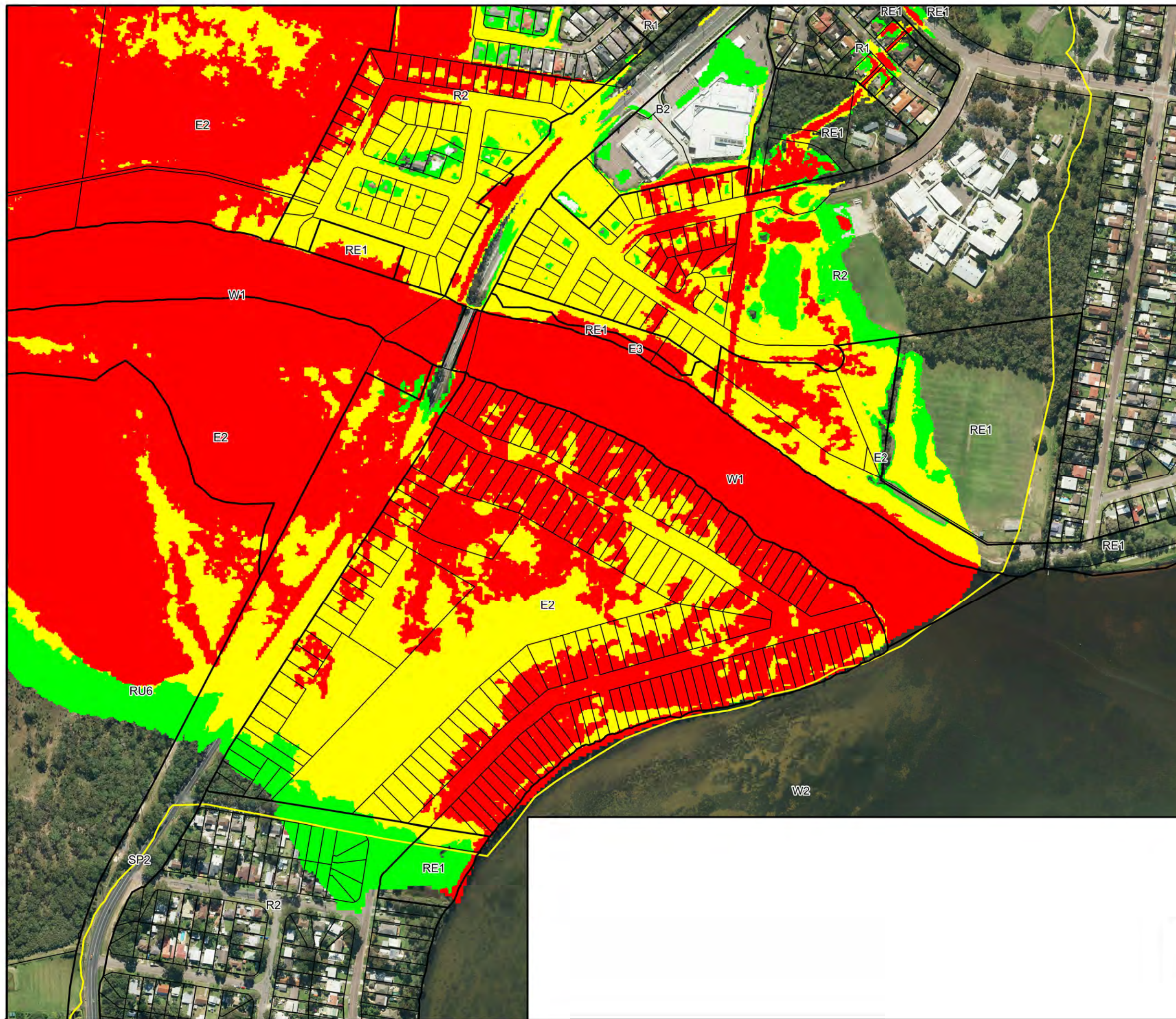
0 0.2 0.4 Km

**Figure 21.9:
Flood Planning
Constraint Categories**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

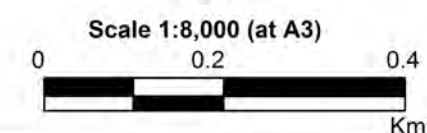
File Name: Fig21.9 - Flood Planning
Constraint Categories.wor





LEGEND

- Category 1
- Category 2
- Category 3
- Category 4
- R2 Land Zone Extent

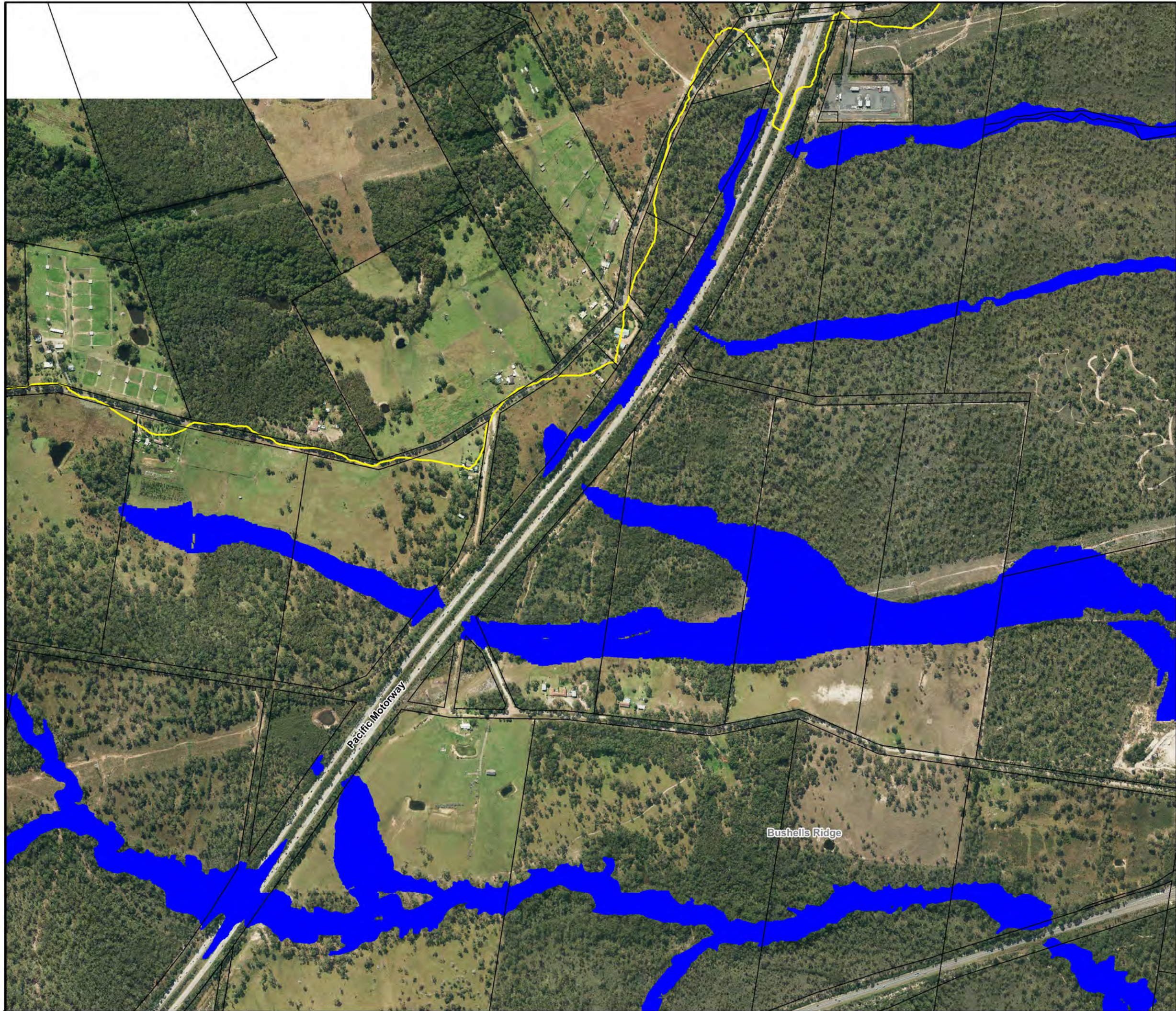


**Figure 21.11:
Flood Planning
Constraint Categories**

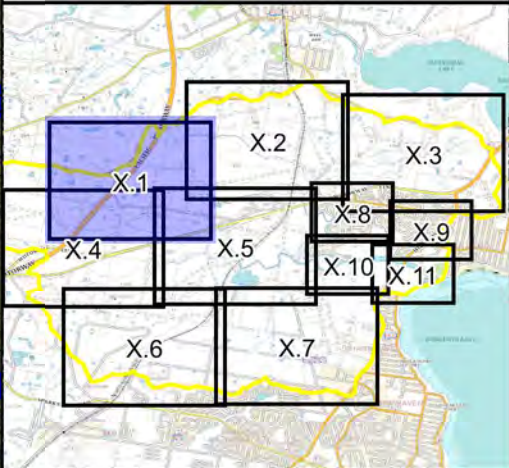
Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000


File Name: Fig21.11 - Flood Planning
Constraint Categories.wor

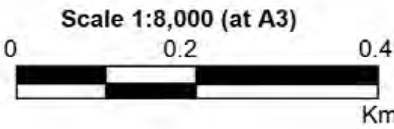


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Council




LEGEND

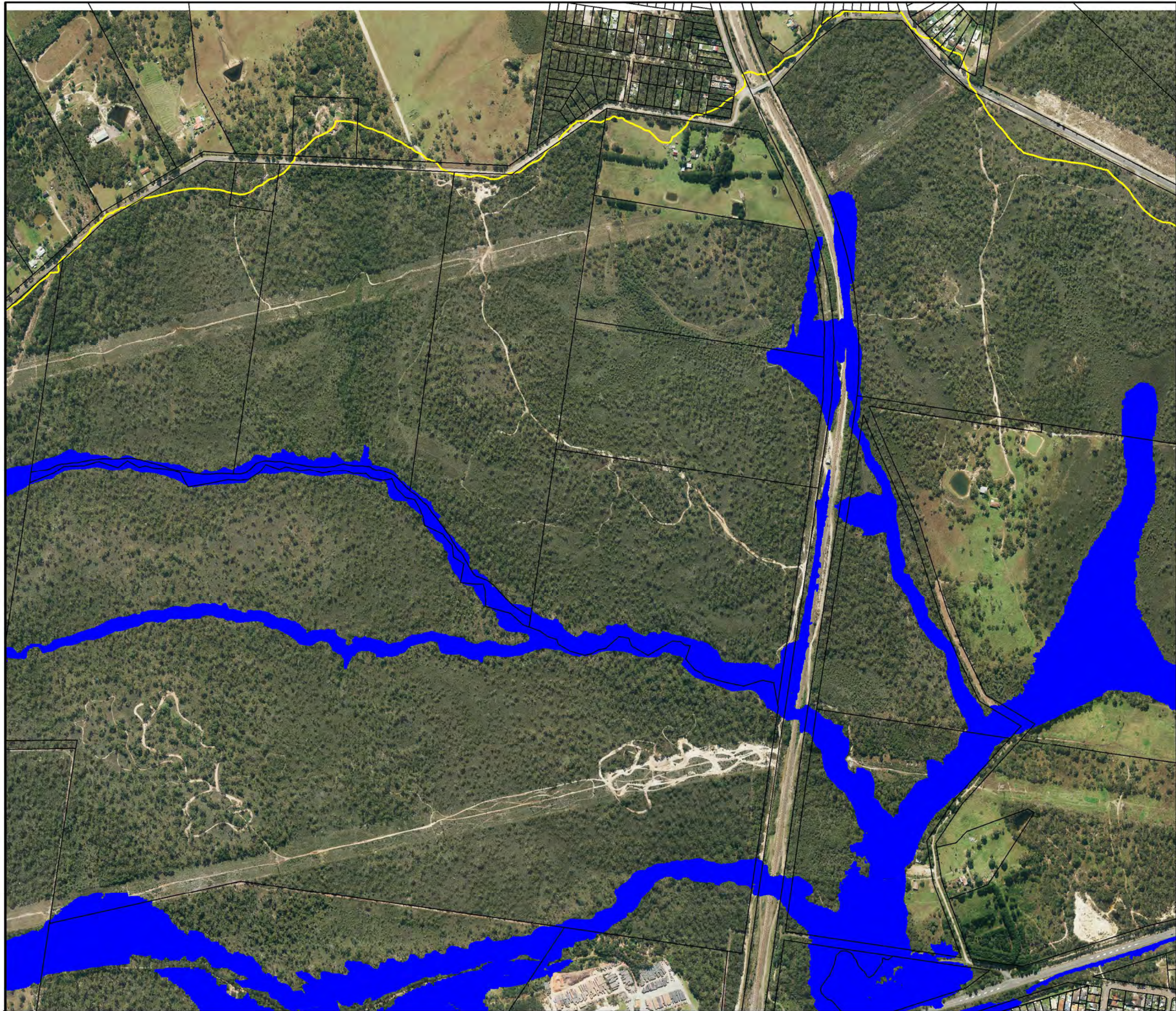
 Flood Planning Area



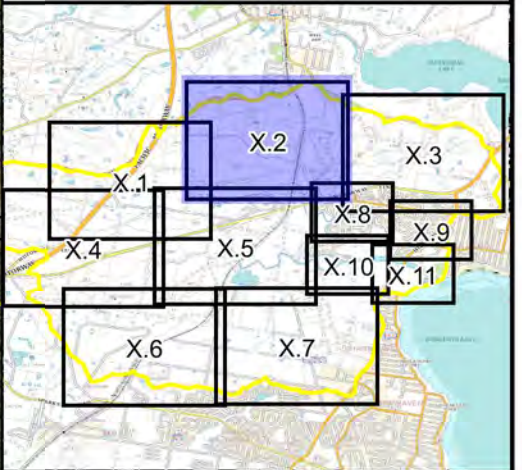
**Figure 22.1:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000


File Name: Fig22.1 - Flood Planning
Area.wor



Central
Coast
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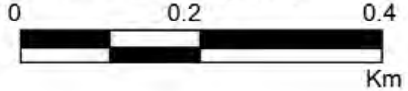


LEGEND

 Flood Planning Area



Scale 1:8,000 (at A3)



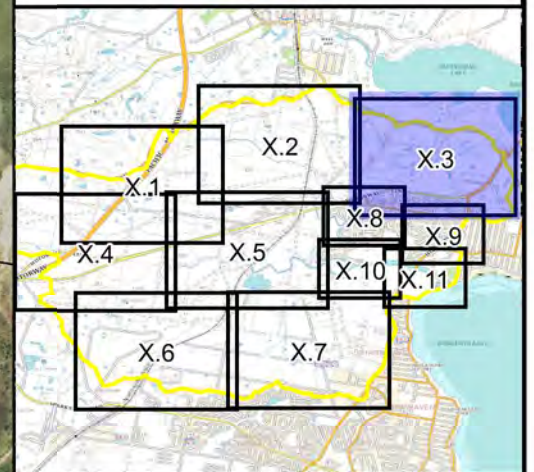
**Figure 22.2:
Flood Planning
Area**

Prepared By:




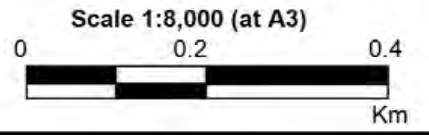
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.2 - Flood Planning
Area.wor




LEGEND

 Flood Planning Area

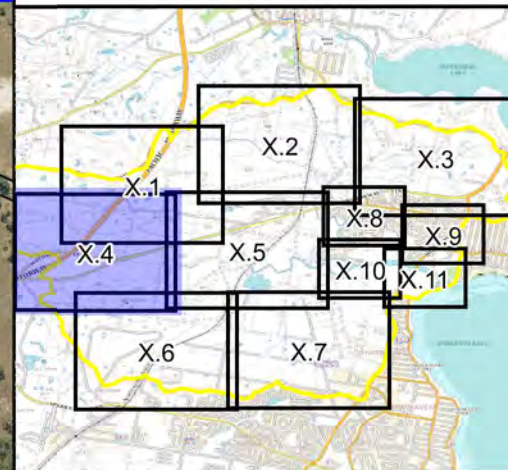
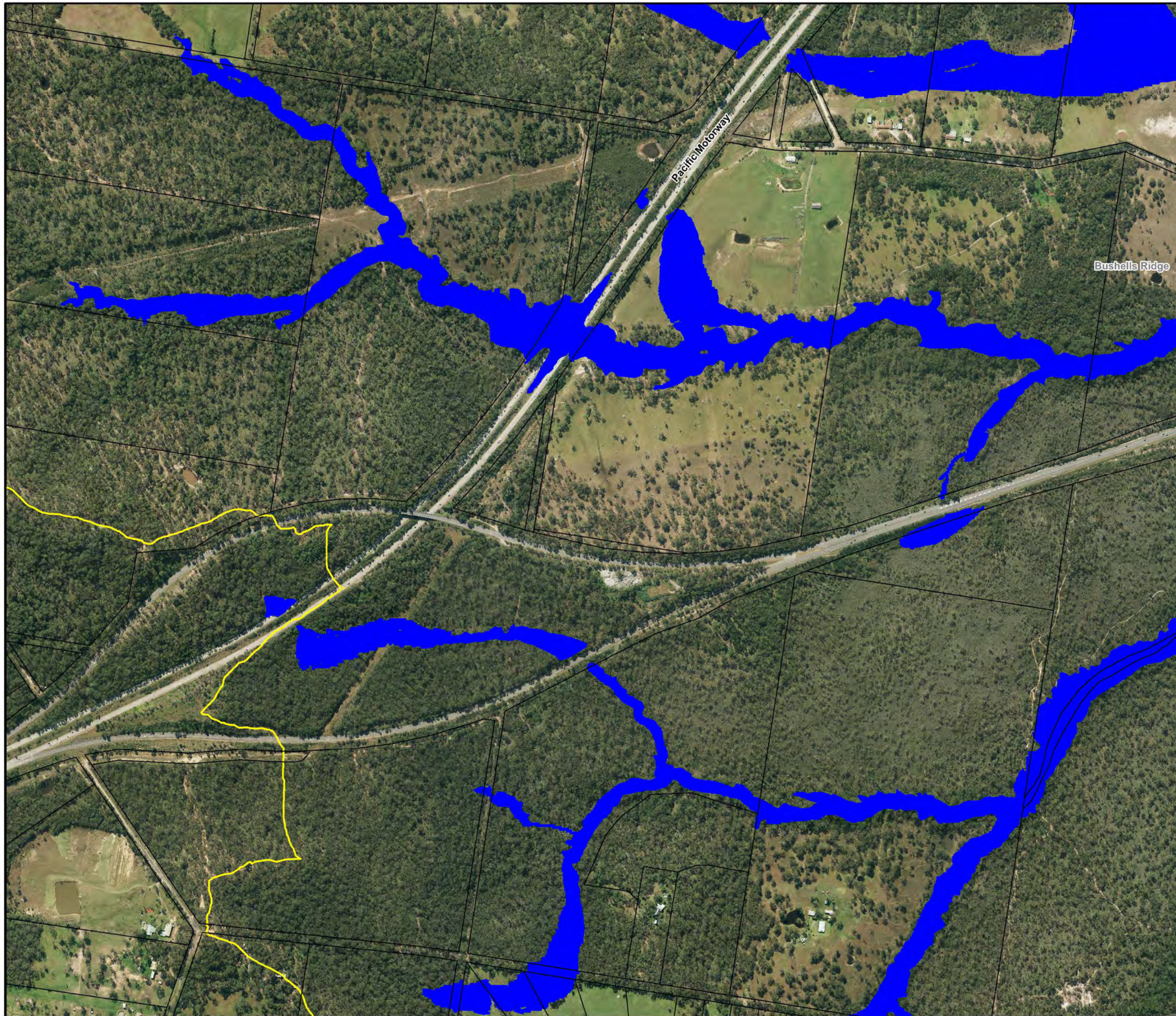


**Figure 22.3:
Flood Planning
Area**


Prepared By:

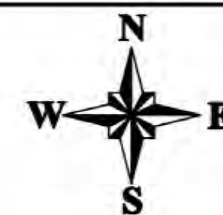
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.3 - Flood Planning
Area.wor




LEGEND

 Flood Planning Area

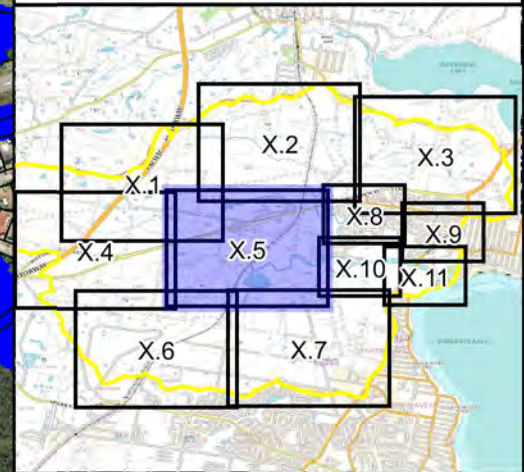
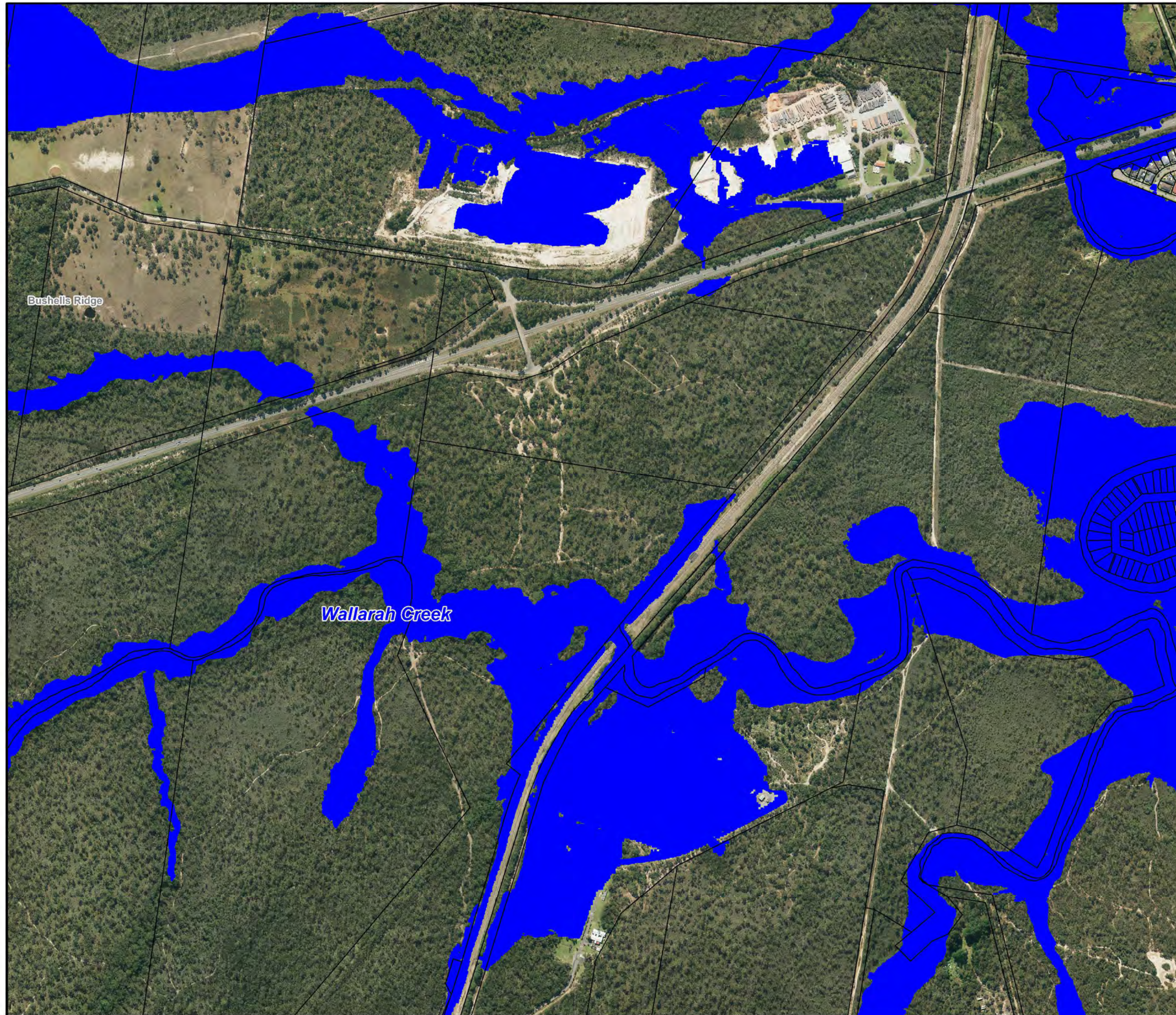


Scale 1:8,000 (at A3)
0 0.2 0.4
Km


**Figure 22.4:
Flood Planning
Area**

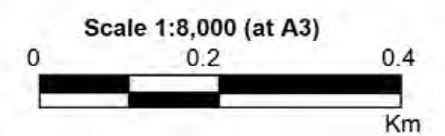
Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.4 - Flood Planning
Area.wor

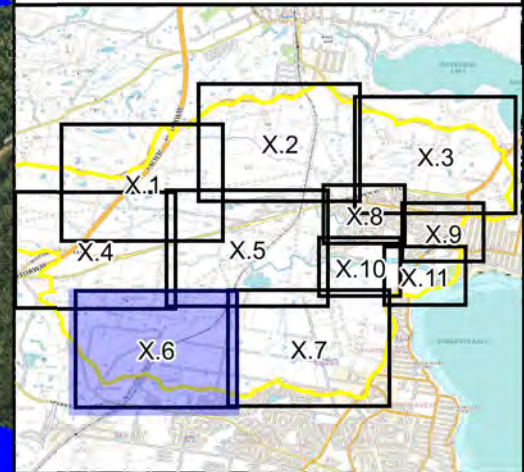
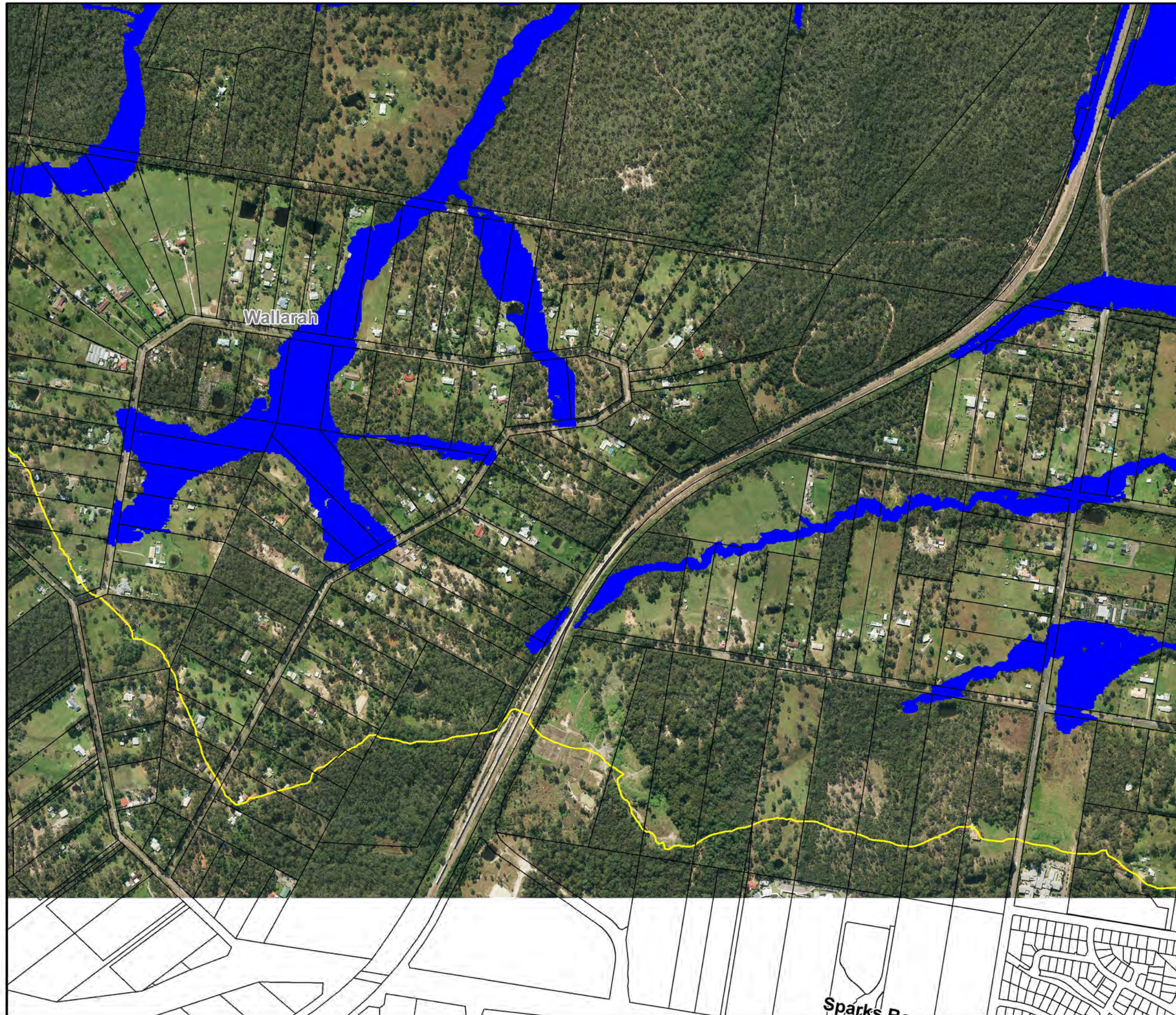


LEGEND


 Flood Planning Area




**Figure 22.5:
Flood Planning
Area**

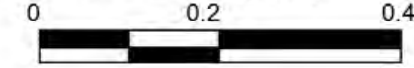


LEGEND

 Flood Planning Area



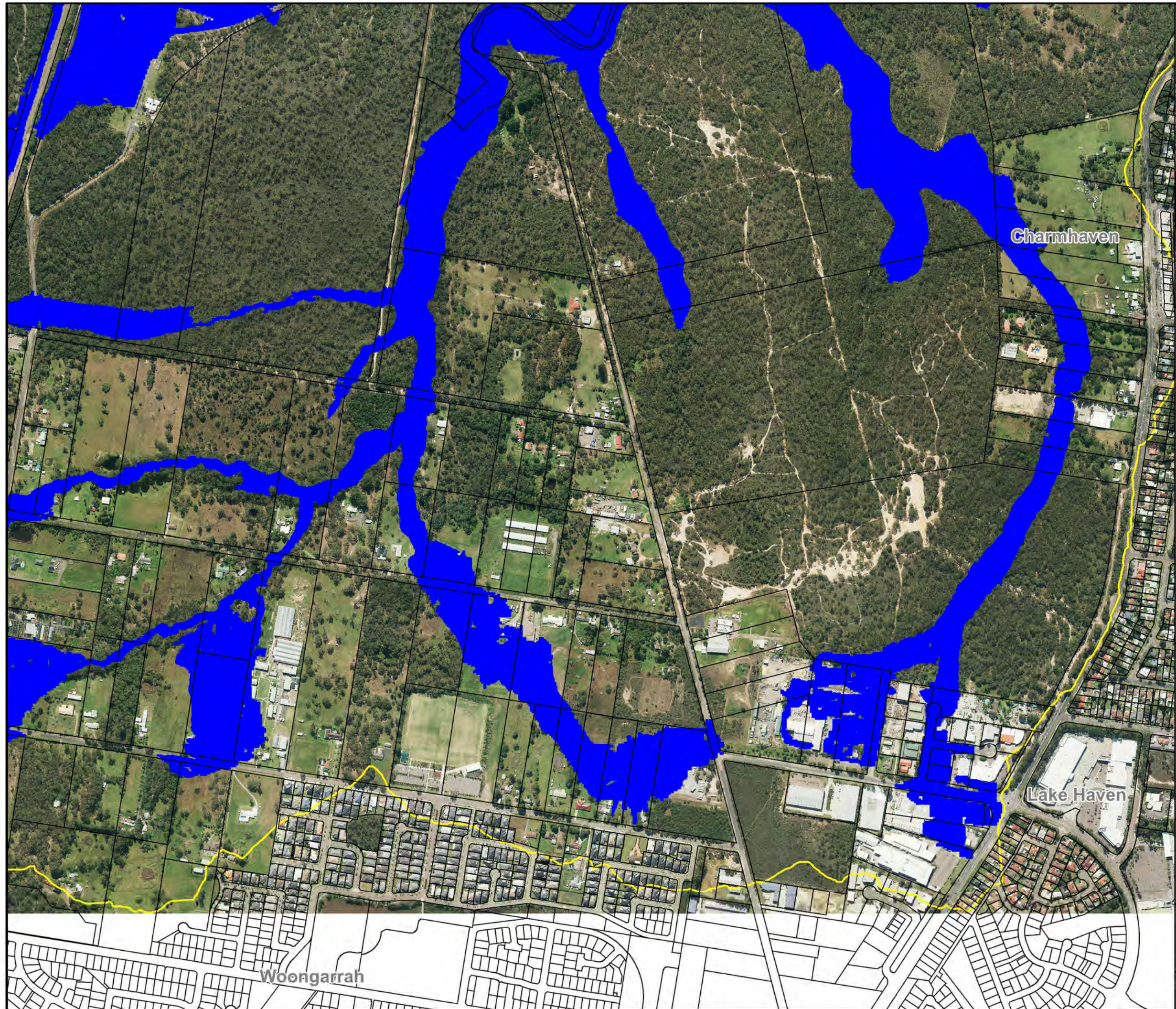
Scale 1:8,000 (at A3)

 0 0.2 0.4 Km

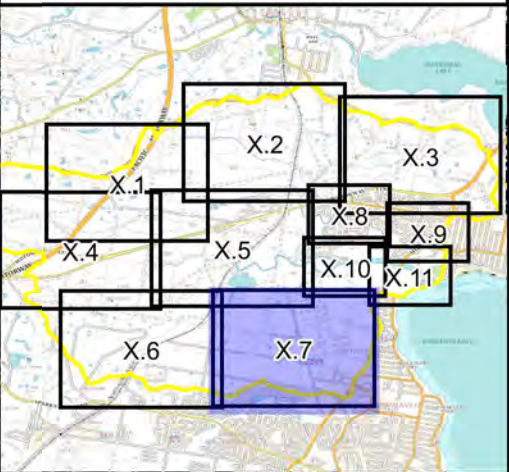
**Figure 22.6:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000


File Name: Fig22.6 - Flood Planning
Area.wor



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Council



LEGEND

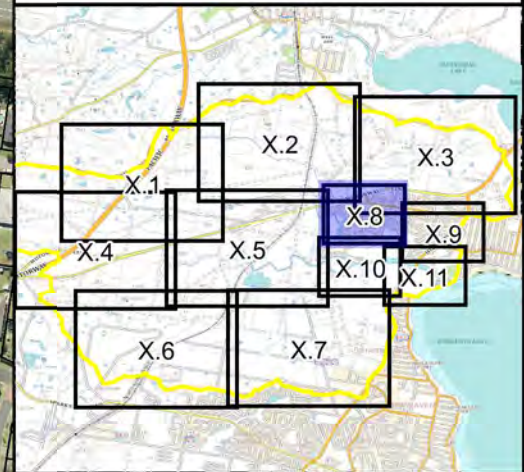
 Flood Planning Area




Scale 1:8,000 (at A3)
0 0.2 0.4
Km

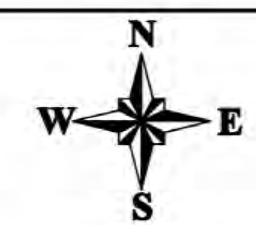
**Figure 22.7:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000
File Name: Fig22.7 - Flood Planning
Area.wor




LEGEND

 Flood Planning Area



Scale 1:8,000 (at A3)
0 0.2 0.4
Km

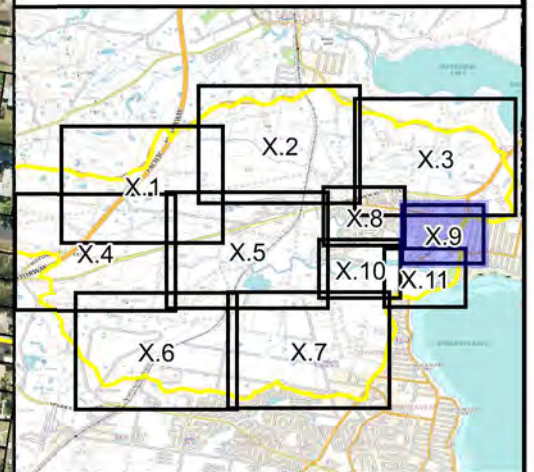
**Figure 22.8:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000


File Name: Fig22.8 - Flood Planning
Area.wor

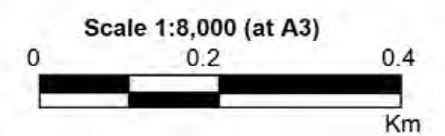


Central
Coast
Council




LEGEND

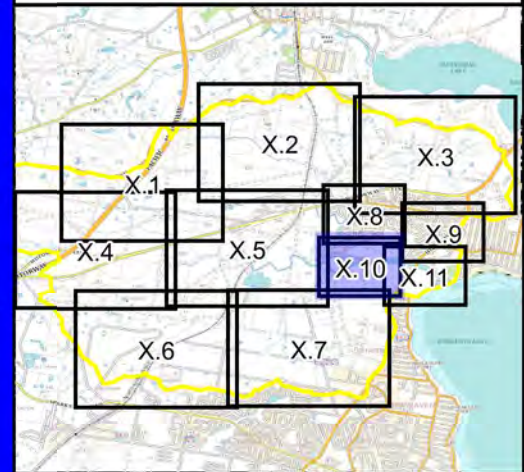
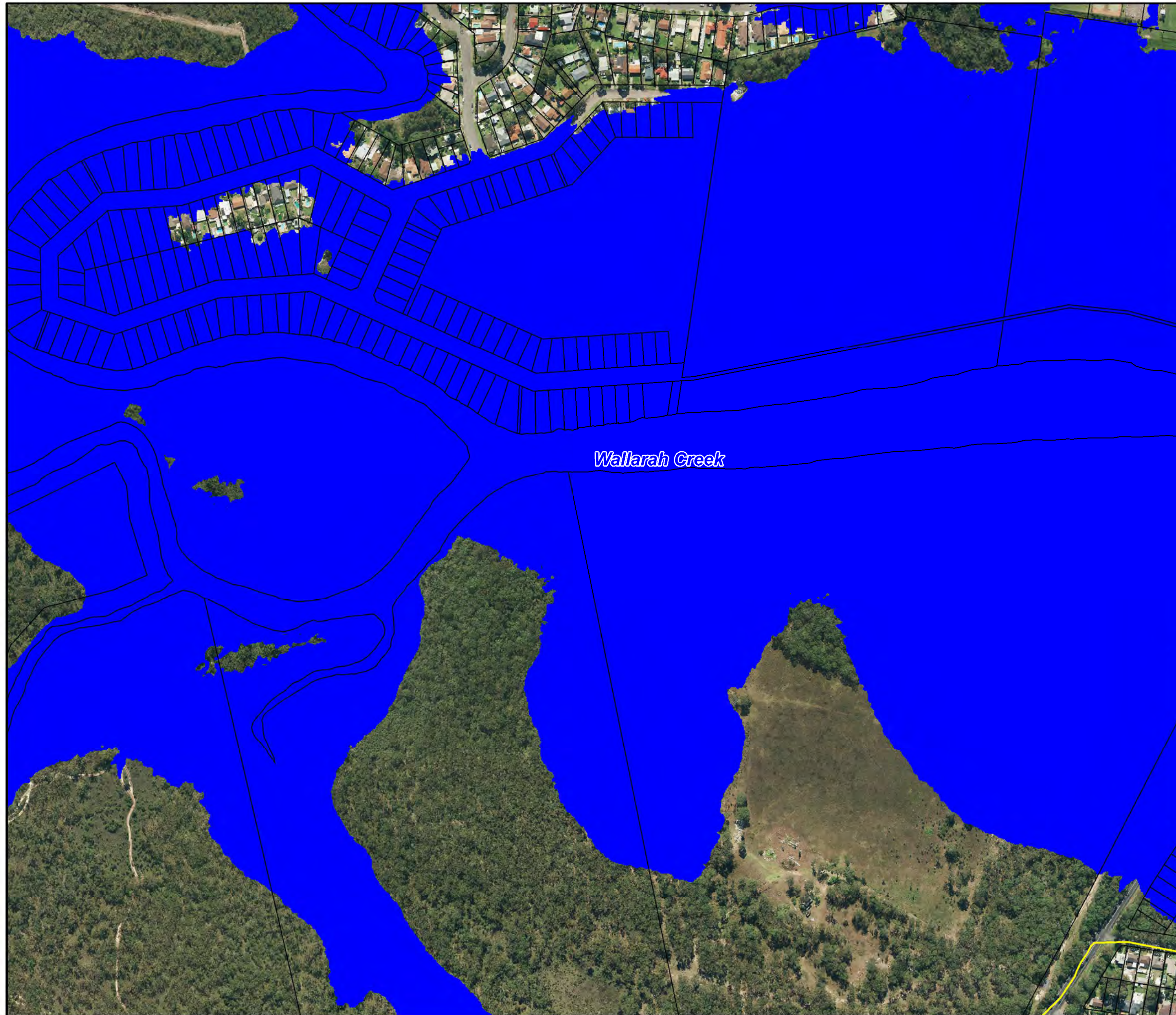
 Flood Planning Area




**Figure 22.9:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.9 - Flood Planning
Area.wor




LEGEND

 Flood Planning Area

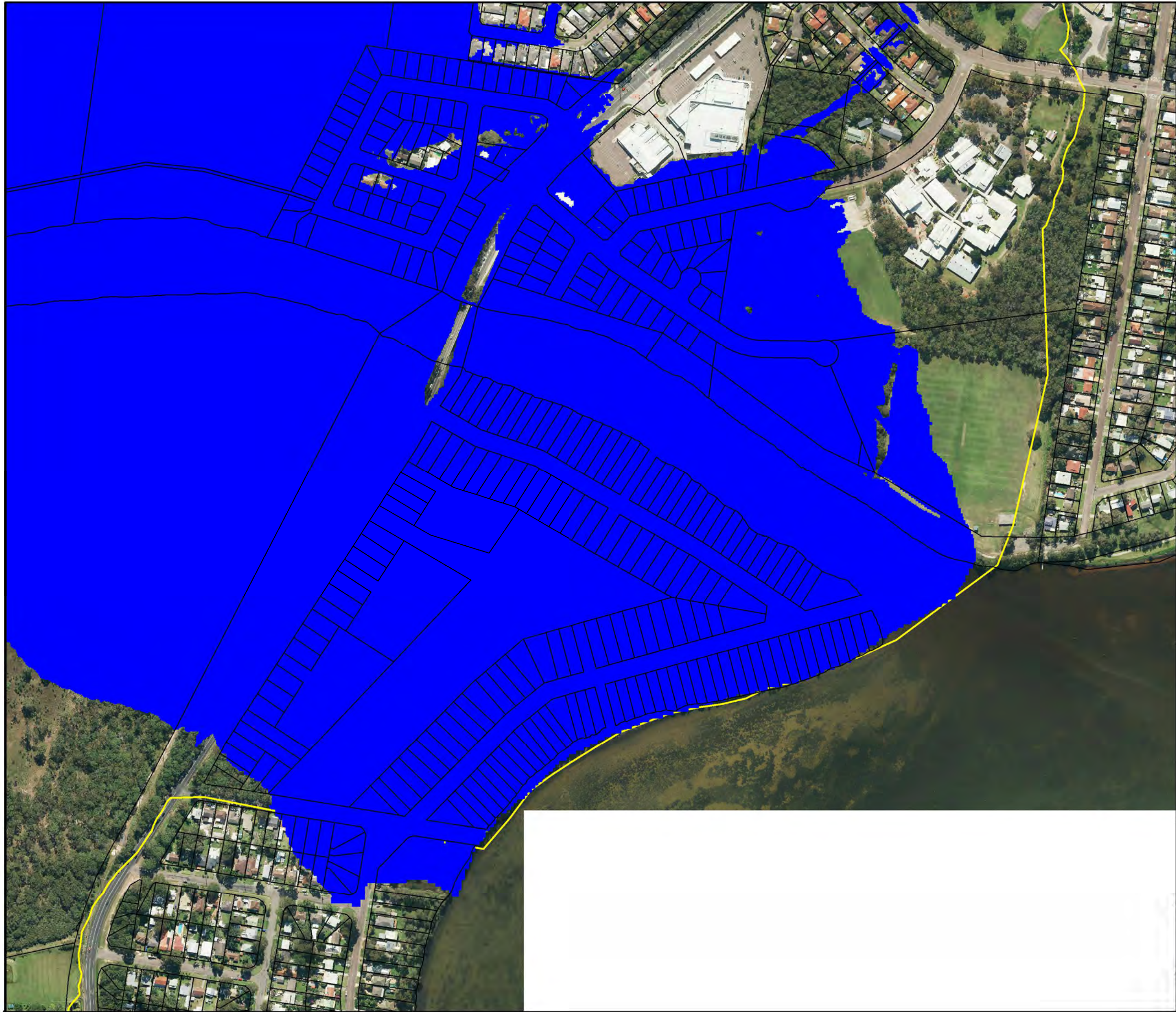


Scale 1:8,000 (at A3)
0 0.2 0.4
Km

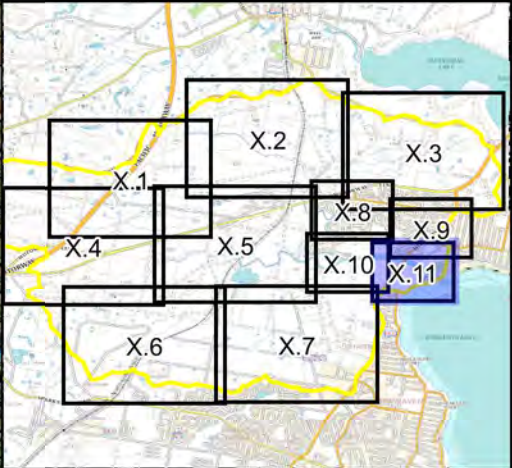
**Figure 22.10:
Flood Planning
Area**

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000


File Name: Fig22.10 - Flood Planning
Area.wor



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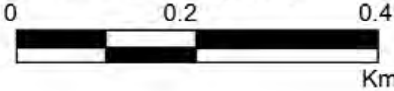


LEGEND

 Flood Planning Area



Scale 1:8,000 (at A3)



**Figure 22.11:
Flood Planning
Area**

Prepared By:



Catchment Simulation Solutions

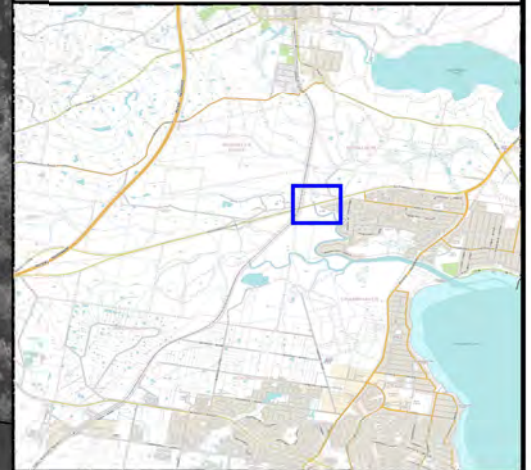
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.11 - Flood Planning
Area.wor



CONCEPT DESIGNS FOR FLOOD RISK MANAGEMENT MEASURES





LEGEND

- Terrain Changes
- Culvert
- Basin Wall
- Basin Spillway



Scale 1:1,500 (at A3)
0 36 72
m

Figure 23.1:
Concept Design for the
Doyalson Link Road
Basin (FM1)

Prepared By:
Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

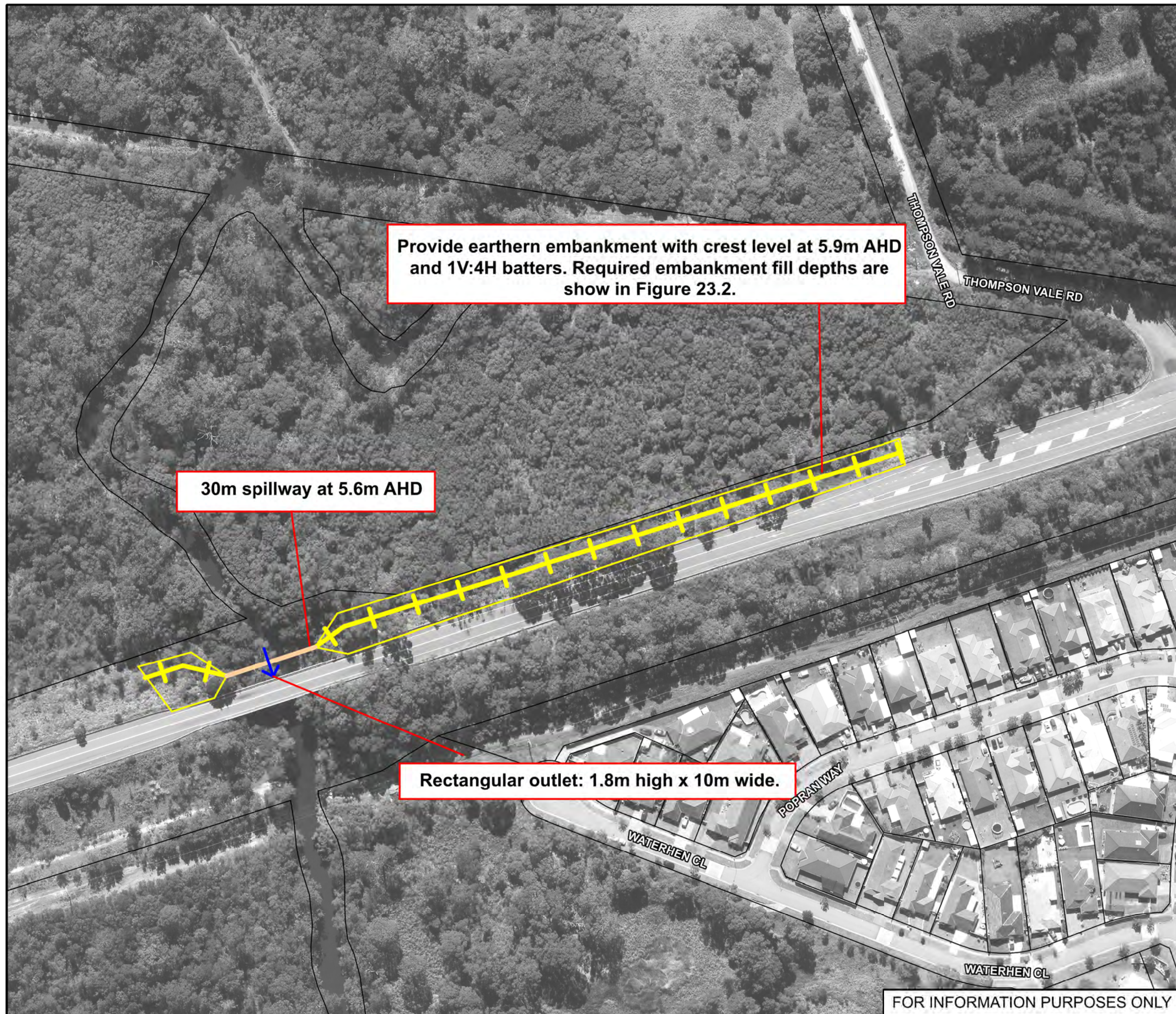
File Name: Fig23.1 - Concept Design for the
Doyalson Link Road Basin (FM1).wor

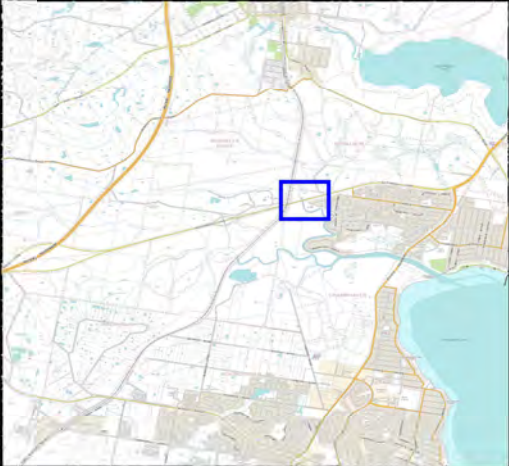
FOR INFORMATION PURPOSES ONLY

Provide earthen embankment with crest level at 5.9m AHD and 1V:4H batters. Required embankment fill depths are show in Figure 23.2.

30m spillway at 5.6m AHD

Rectangular outlet: 1.8m high x 10m wide.





LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-6.00	-4.00	Dark Green	0m3	CUT
-4.00	-2.00	Green	0m3	CUT
-2.00	0.00	Light Green	0m3	CUT
0.00	2.00	Orange	2581m3	FILL
2.00	4.00	Brown	492m3	FILL
4.00	5.81	Dark Brown	227m3	FILL
Preliminary Cut Volume = 0m3				
Preliminary Fill Volume = 3300m3				
Preliminary Net Volume = 3300m3				

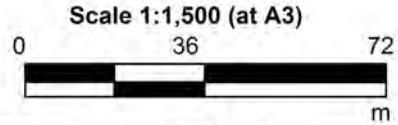


Figure 23.2:
Concept Design for the
Doyalson Link Road
Basin (FM1)

Prepared By:
 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig23.2 - Concept Design for the
Doyalson Link Road Basin (FM1).wor

FOR INFORMATION PURPOSES ONLY



LEGEND

- ▭ Terrain Changes
- Cross Section

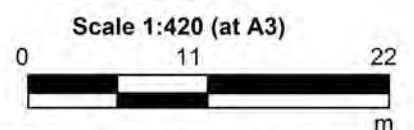
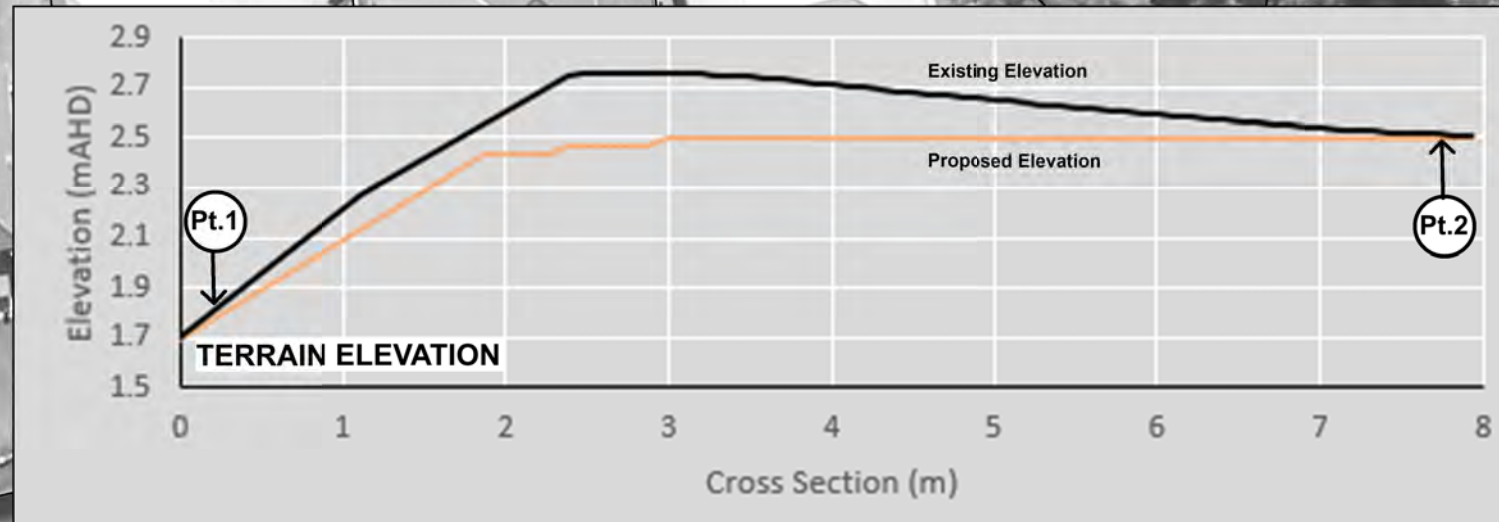


Figure 24.1:
Concept Design for the
Modified Pinehurst Way
Detention Basin (FM2)

Prepared By:
Catchment Simulation Solutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig24.1 - Concept Design for Pinehurst Way Detention Basin (FM2).wor



Widen existing spillway (total spillway width = 27 metres) and lower to 2.5m AHD. Figure 24.2 shows required terrain changes



LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-0.96	-0.60	Dark Green	6m3	CUT
-0.60	-0.30	Medium Green	17m3	CUT
-0.30	0.00	Light Green	49m3	CUT
0.00	0.30	Light Orange	0m3	FILL
0.30	0.60	Orange	0m3	FILL
0.60	0.90	Dark Orange	0m3	FILL
Preliminary Cut Volume = 72m3				
Preliminary Fill Volume = 0m3				
Preliminary Net Volume = -72m3				



Scale 1:420 (at A3)

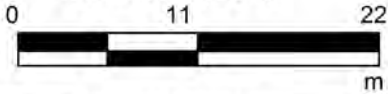



Figure 24.2:
Concept Design for the
Modified Pinehurst Way
Detention Basin (FM2)

Prepared By:

 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig24.2 - Concept Design for
Pinehurst Way Detention Basin (FM2).wor



LEGEND


- New Box Culvert Alignment
- Existing Stormwater Pipes
- - - Cross Section



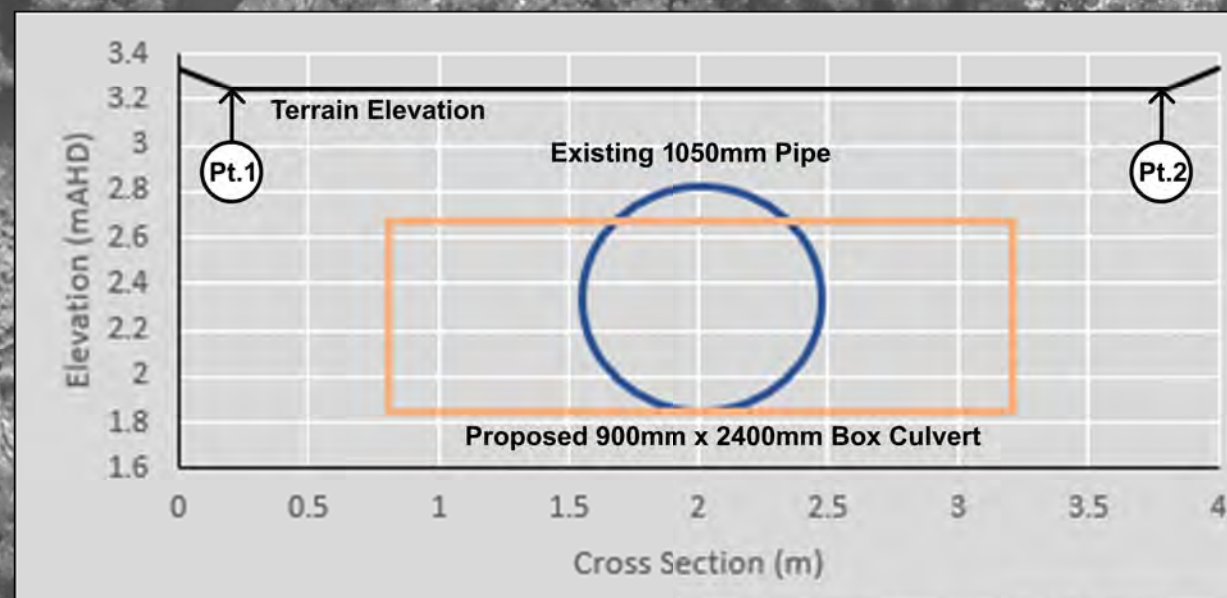
Scale 1:420 (at A3)

0 11 22
m

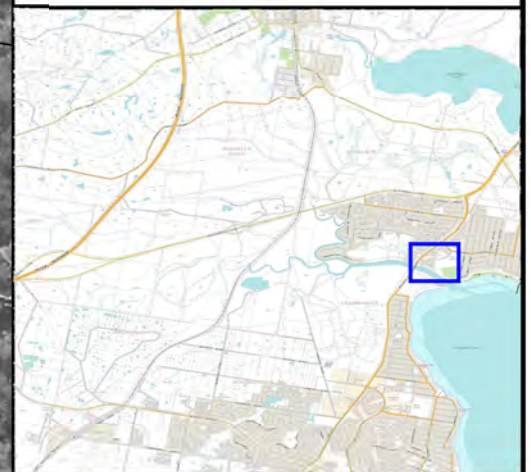
Figure 25:
Concept Design for the
Pinehurst Way Stormwater
Upgrade (FM3)

Prepared By:
 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig25 - Concept Design for
Pinehurst Way Stormwater Upgrade (FM3).wor



FOR INFORMATION PURPOSES ONLY



LEGEND

- New Stormwater Pipes
- Existing Stormwater Pipes (Size - m)
- Overland Flow Path Alignment
- Maximum Wall Height (m)
- 0.6
- 0.7
- 0.8
- 0.9



Scale 1:680 (at A3)

0 18 36 m

Figure 26: Concept Design for the Brava Avenue Floodwall and Drainage Upgrades (FM4)

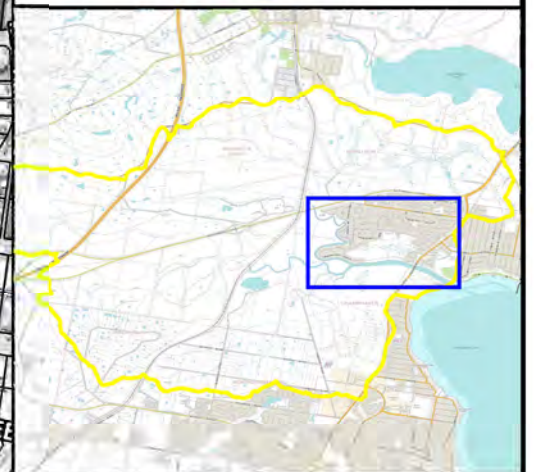
Prepared By:

Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig26 - Concept Design for the Brava Ave Floodwall & Drainage (FM4).wor

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LEGEND

- █ Potential vegetation removal
- ▨ Coastal Environment Area
- █ Coastal Wetlands Area and Exclusion Zone



Scale 1:7,000 (at A3)

0 175 350
m

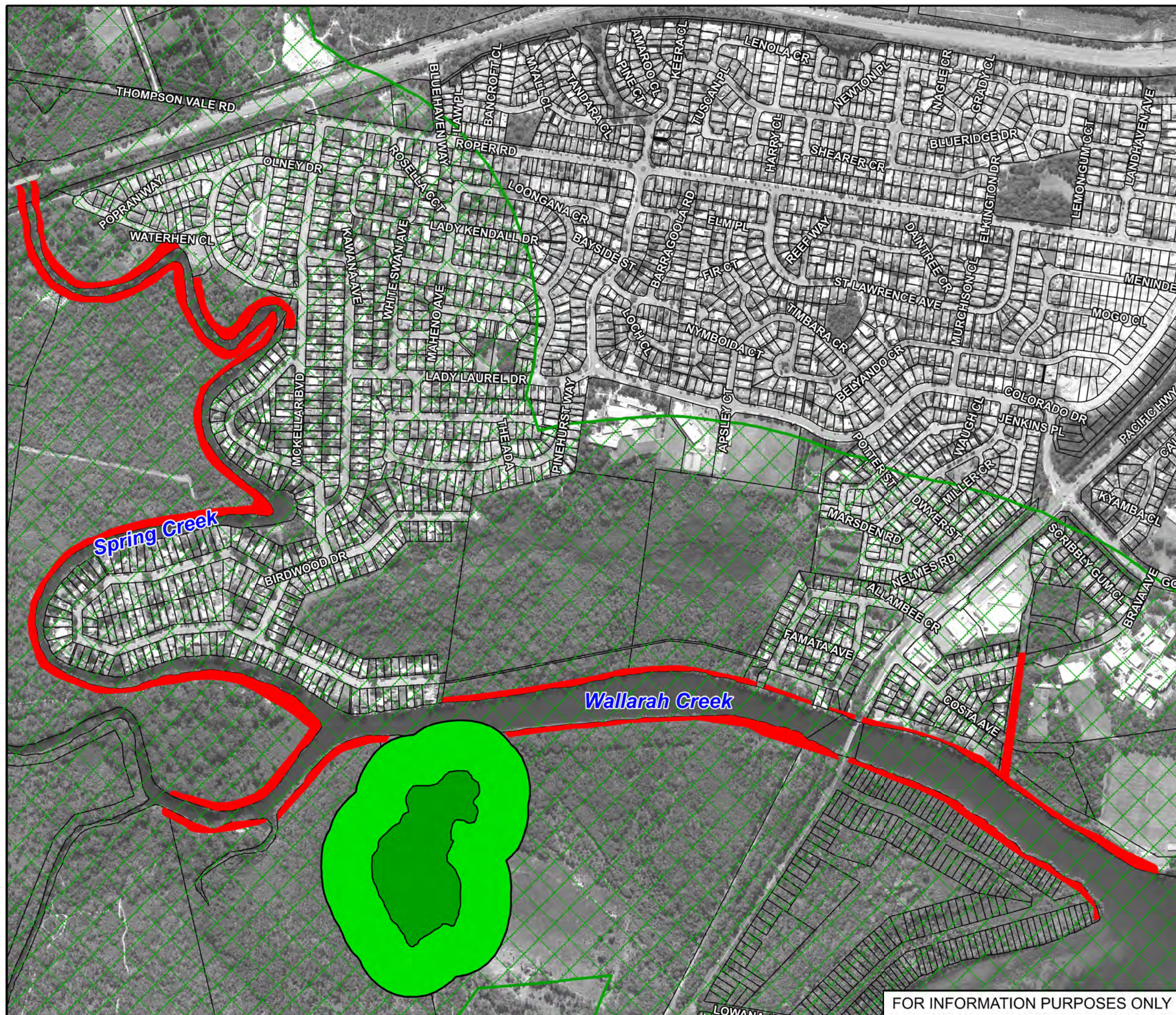
Figure 27: Concept Design for the Creek Maintenance and Removal of Dense Vegetation (FM5)

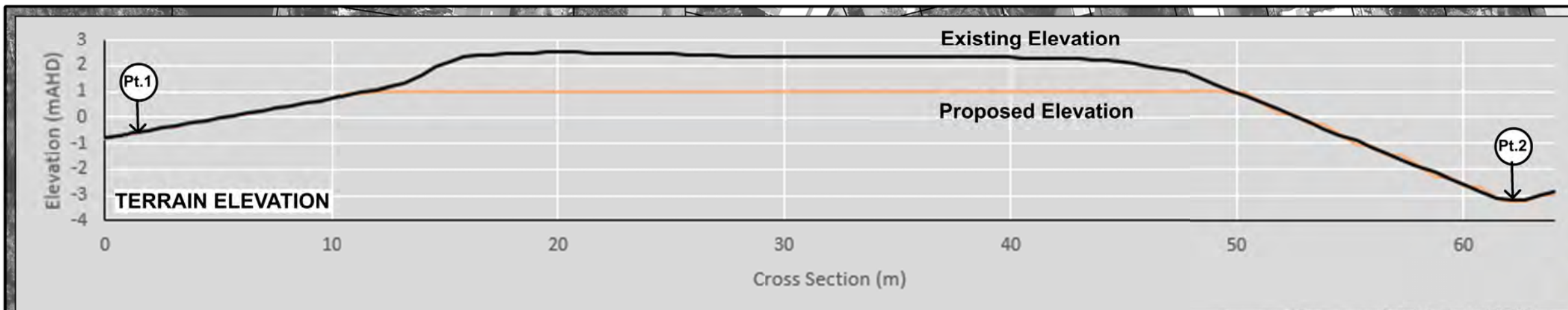
Prepared By:

Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

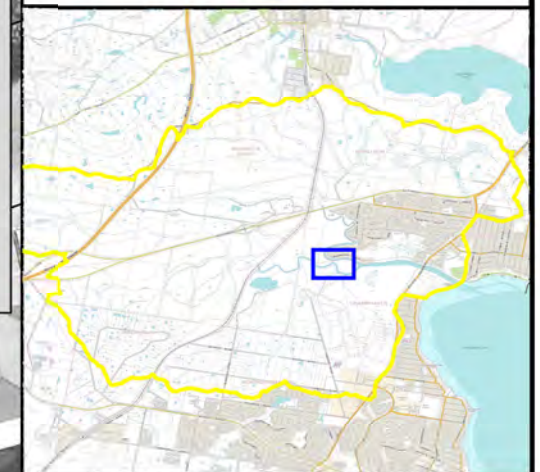
File Name: Fig27 - Concept Design for the Creek Vegetation Maintenance (FM5).wor

FOR INFORMATION PURPOSES ONLY





Central Coast Council



LEGEND

- Terrain Changes
- Long Section

Lower the terrain to 1.0m AHD. See Figure 28.2 for extent of changes. Vegetation to be reinstated to current level.



Scale 1:680 (at A3)

0 17 34 m

Figure 28.1:
Concept Design for the
Spring Creek High
Flow Bypass (FM6)

Prepared By:

CatchmentSimulationSolutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig28.1 - Concept Design for the Spring Creek High Flow Bypass (FM6).wor

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LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-3.00	-2.00	Dark Green	0m3	CUT
-2.00	-1.00	Medium Green	1540m3	CUT
-1.00	0.00	Light Green	5706m3	CUT
0.00	1.00	Light Orange	0m3	FILL
1.00	2.00	Orange	0m3	FILL
2.00	3.00	Dark Orange	0m3	FILL

Preliminary Cut Volume = 7246m3
Preliminary Fill Volume = 0m3
Preliminary Net Volume = -7246m3



Scale 1:680 (at A3)

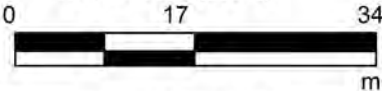

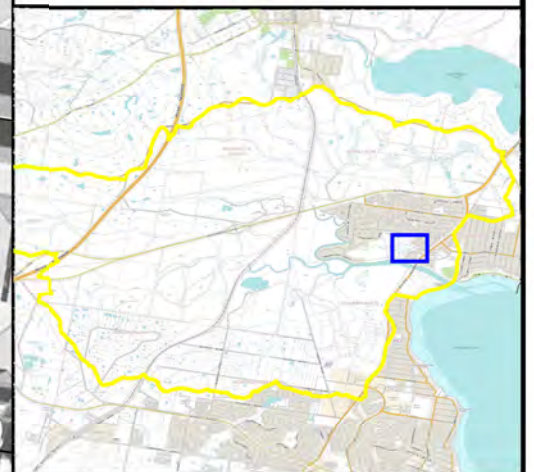


Figure 28.2:
Concept Design for the
Spring Creek High
Flow Bypass (FM6)

Prepared By:
 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig28.2 - Concept Design for the Spring Creek High Flow Bypass (FM6).wor



LEGEND

- Terrain Changes
- New Culvert
- Existing Channel Alignment



Scale 1:780 (at A3)
0 19 38
m

Figure 29.1:
Concept Design for the
Allambee Crescent Channel
Modifications (FM7)

Prepared By:
Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig29.1 - Concept Design for the Allambee Crescent Channel Mod (FM7).wor

FOR INFORMATION PURPOSES ONLY

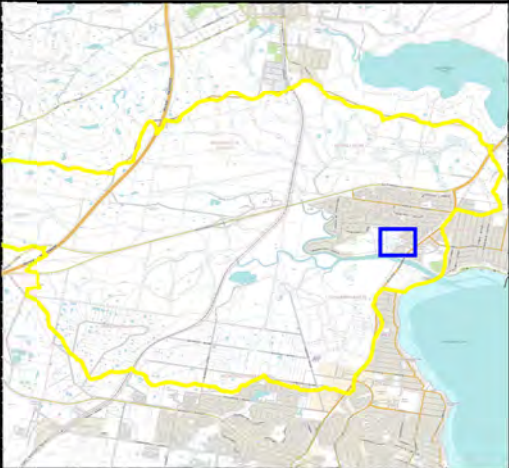
Elevate basin wall. Refer to Figure 29.2 for required elevation changes.

0.6m diameter culvert fitted with floodgate.

Earthen embankment built to 1.83m AHD. Refer to Figure 29.2 for required elevation changes.

Minor (<0.15m) increases in pathway elevation. Refer to Figure 29.2 for required elevation changes.





LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-1.20	-0.80	Dark Green	0m3	CUT
-0.80	-0.40	Green	0m3	CUT
-0.40	0.00	Light Green	0m3	CUT
0.00	0.40	Orange	180m3	FILL
0.40	0.80	Dark Orange	32m3	FILL
0.80	1.20	Red	7m3	FILL

Preliminary Cut Volume = 0m3
Preliminary Fill Volume = 219m3
Preliminary Net Volume = 219m3



Scale 1:780 (at A3)

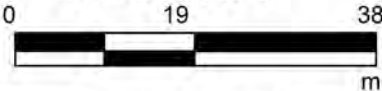

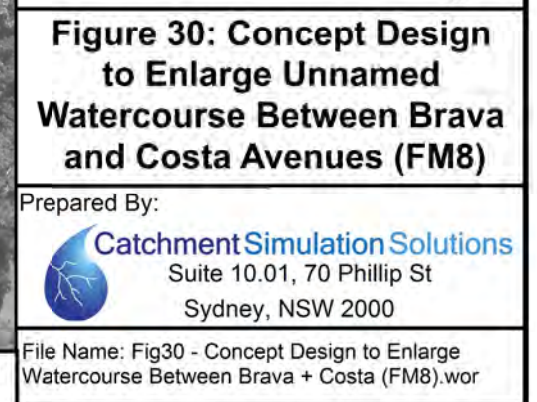
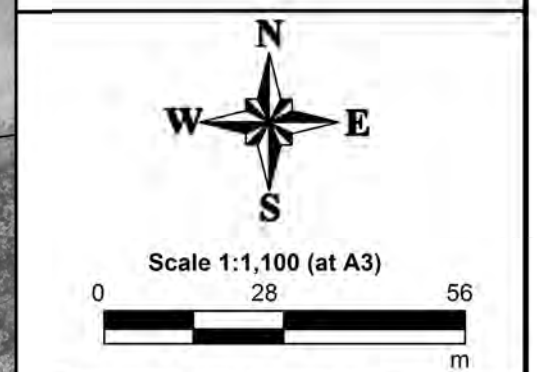
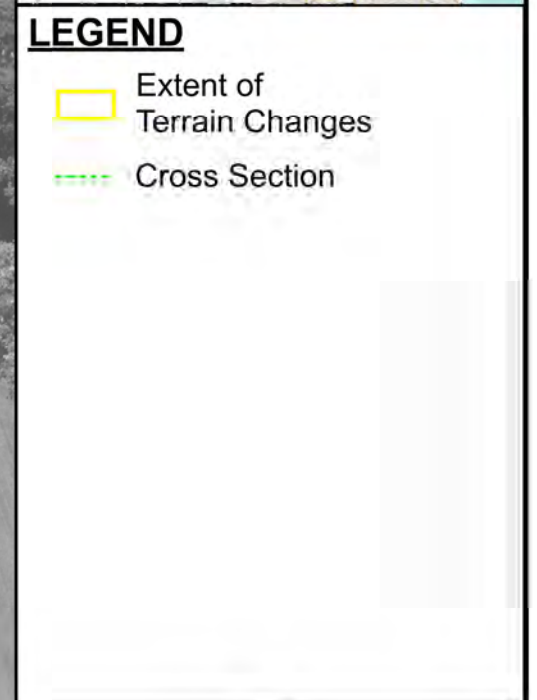
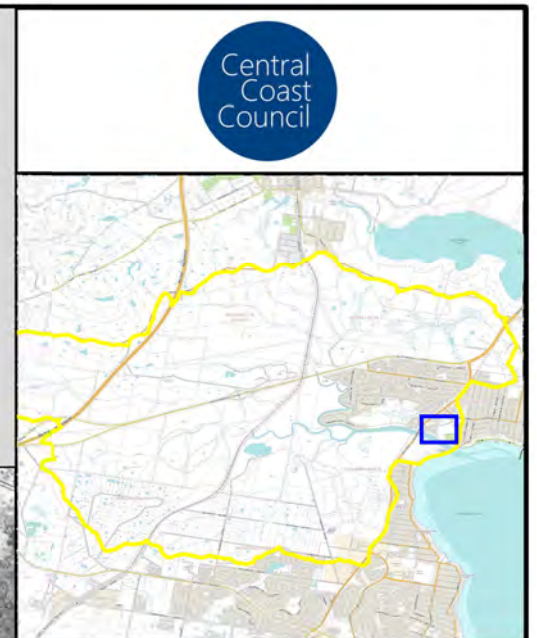
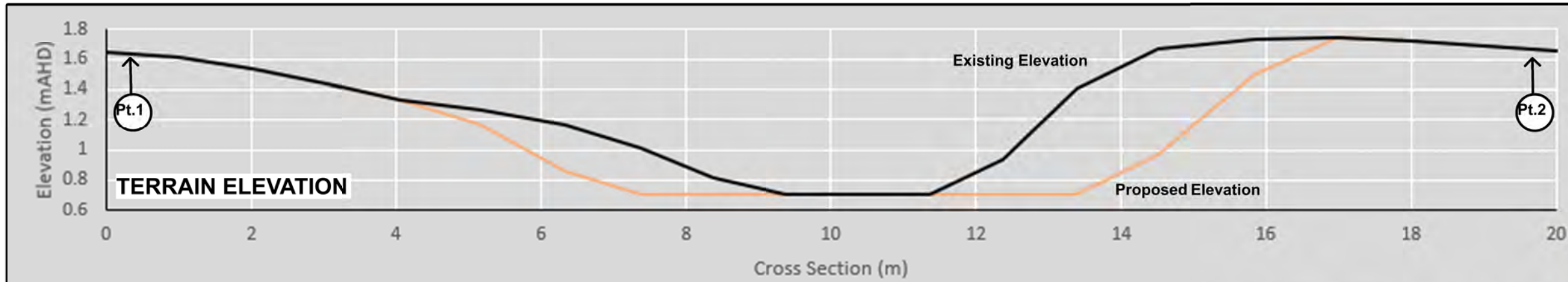
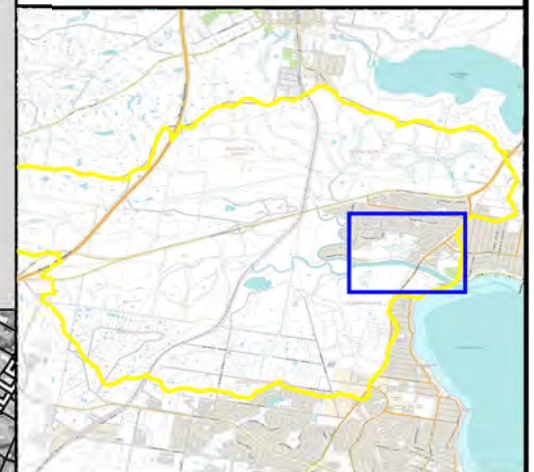


Figure 29.2:
Concept Design for the
Allambee Crescent Channel
Modifications (FM7)

Prepared By:
 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig29.2 - Concept Design for the
Allambee Crescent Channel Mod (FM7).wor





LEGEND

Section Profile				
Terrain Differences				
From Depth	To Depth	Colour	Depth Range	Volume
-0.70	-0.40	Dark Green	5949m3	CUT
-0.40	-0.20	Green	8355m3	CUT
-0.20	0.00	Light Green	8200m3	CUT
0.00	0.20	Orange	0m3	FILL
0.20	0.40	Dark Orange	0m3	FILL
0.40	0.60	Red	0m3	FILL
Preliminary Cut Volume = 22504m3				
Preliminary Fill Volume = 0m3				
Preliminary Net Volume = -22504m3				

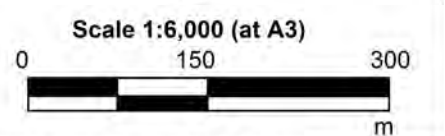
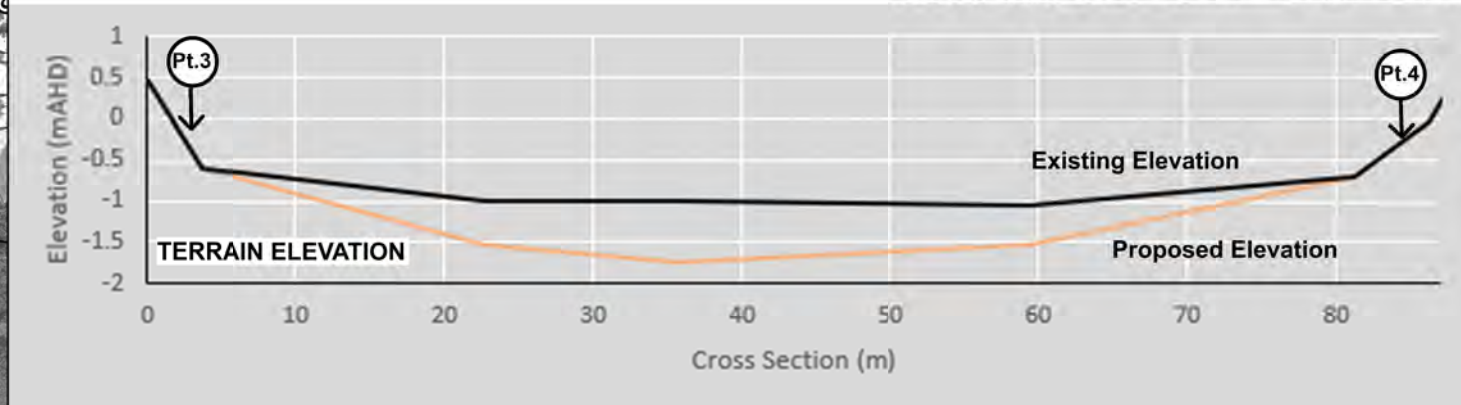
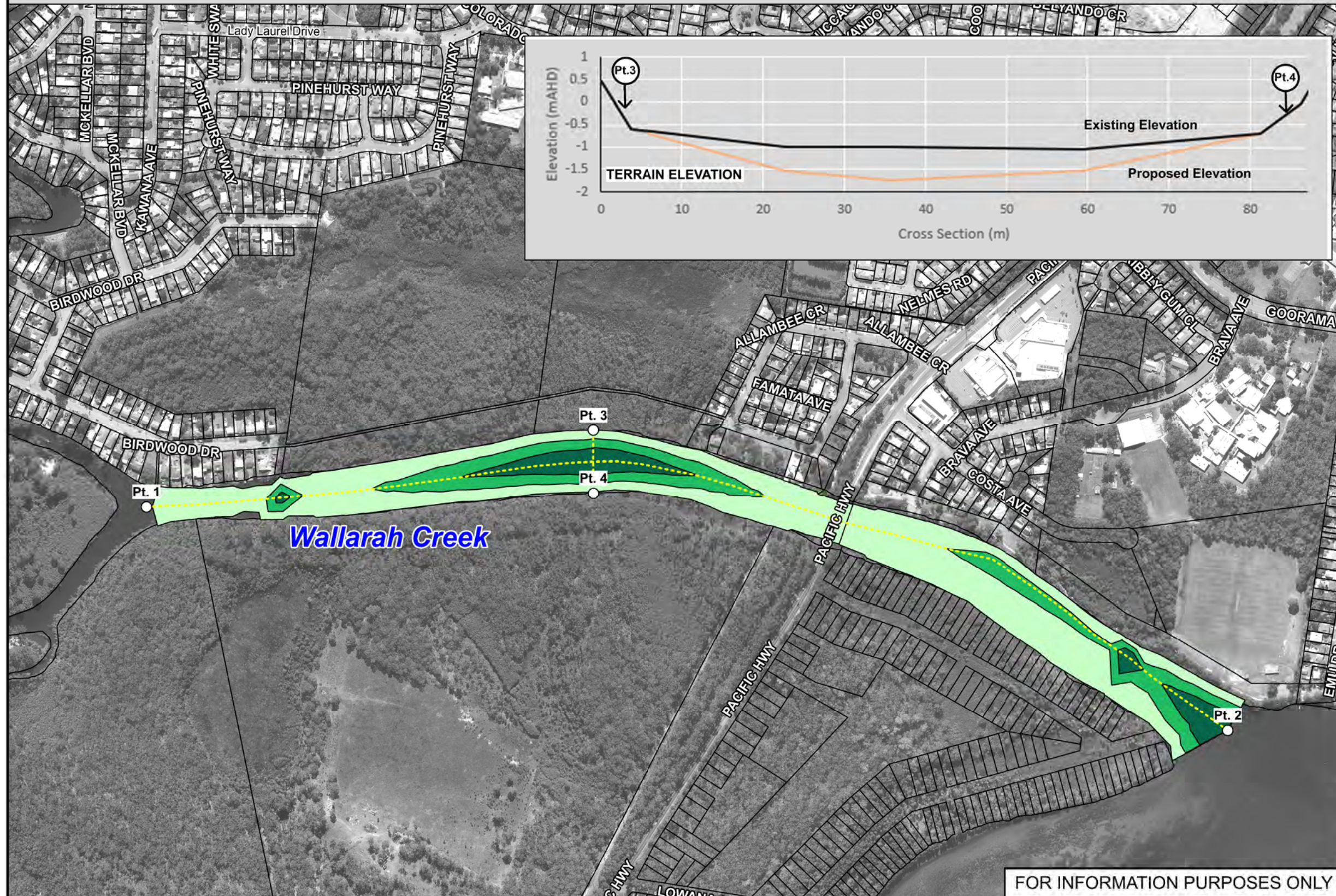
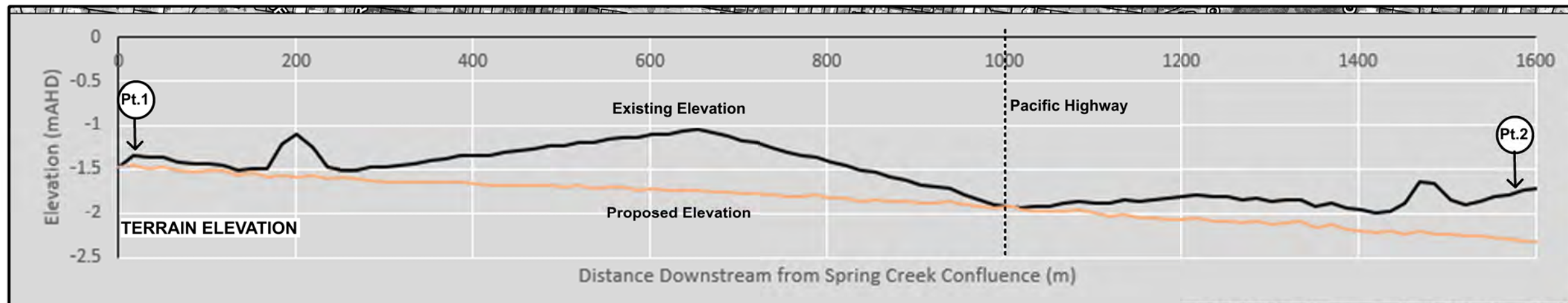


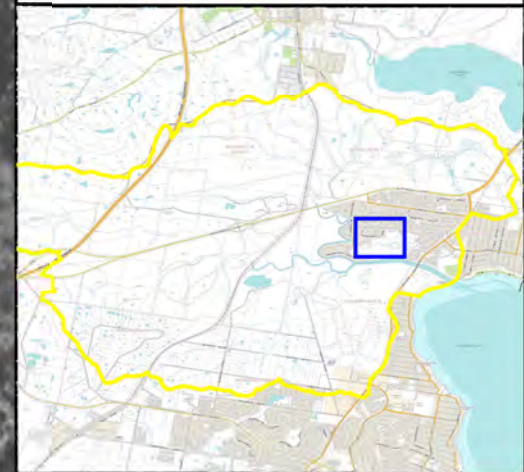
Figure 31: Concept Design to Dredge Wallarah Creek Downstream of the Spring Creek Confluence (FM9)

Prepared By:
 Catchment Simulation Solutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig31 - Concept Design to Dredge Wallarah Creek (FM9).wor



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- LEGEND**
- Terrain Changes
 - Long Section
 - Stormwater Pit

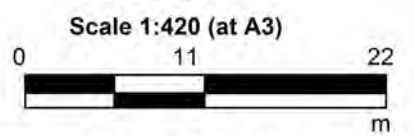
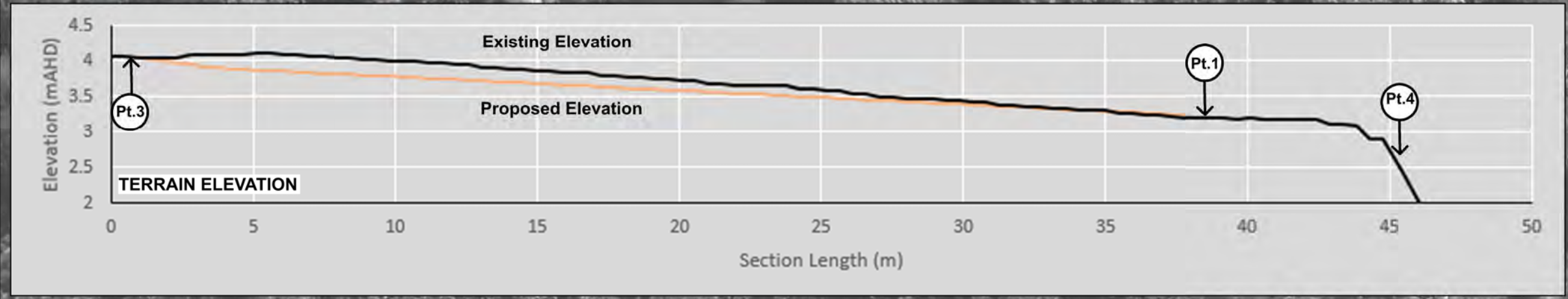
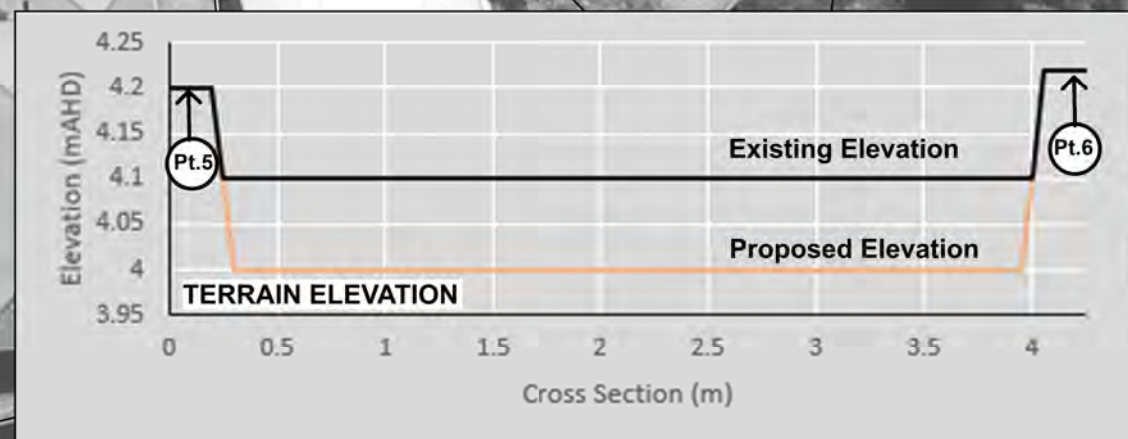
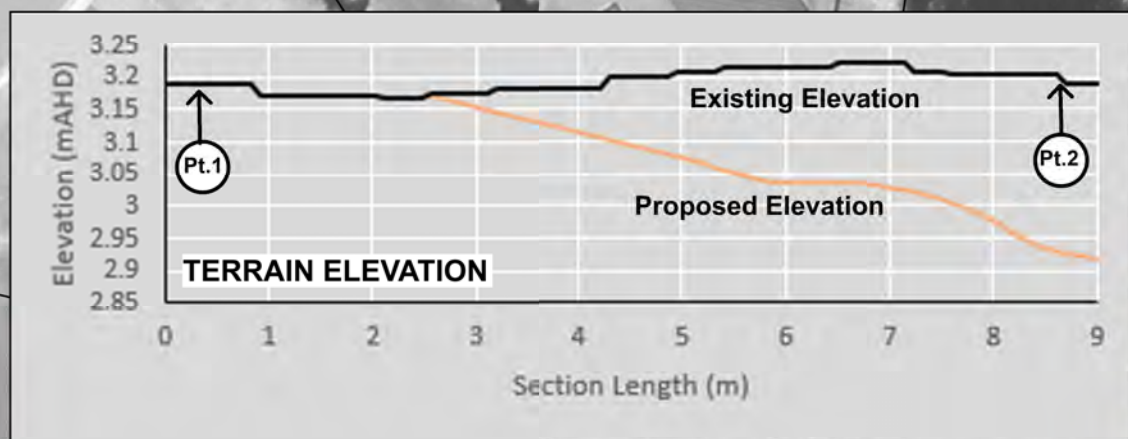


Figure 32.1:
Concept Design for the
Pinehurst Way Flow
Path Reshaping (FM10)

Prepared By:
 CatchmentSimulationSolutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig32.1 - Concept Design for the Pinehurst Way Flow Path Reshaping (FM10).wor





LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-0.30	-0.20	Dark Green	8m3	CUT
-0.20	-0.10	Medium Green	19m3	CUT
-0.10	0.00	Light Green	27m3	CUT
0.00	0.10	Orange	0m3	FILL
0.10	0.20	Dark Orange	0m3	FILL
0.20	0.30	Red	0m3	FILL
Preliminary Cut Volume = 54m3				
Preliminary Fill Volume = 0m3				
Preliminary Net Volume = -54m3				



Scale 1:420 (at A3)

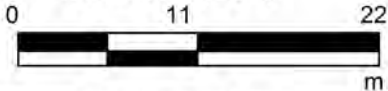


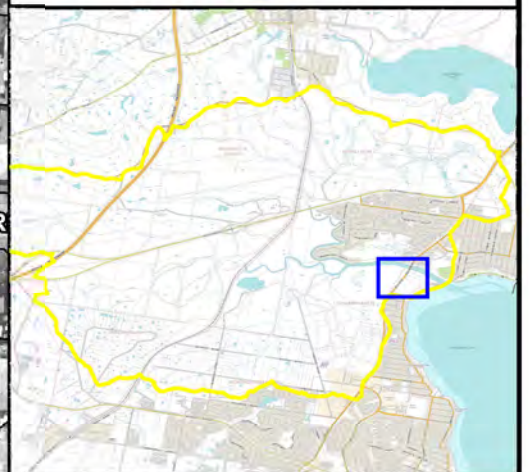
Figure 32.2:
Concept Design for the
Pinehurst Way Flow
Path Reshaping (FM10)

Prepared By:




Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig32.2 - Concept Design for the
Pinehurst Way Flow Path Reshaping (FM10).wor



LEGEND

-  Potentially Eligible Building



Scale 1:1,500 (at A3)

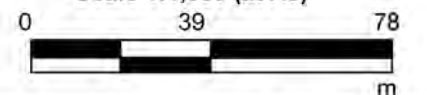



Figure 33:
Properties Potentially
Eligible for Voluntary
Purchase (PM2)

Prepared By:

 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig33 - Properties Potentially
Eligible for Voluntary Purchase (PM2).wor

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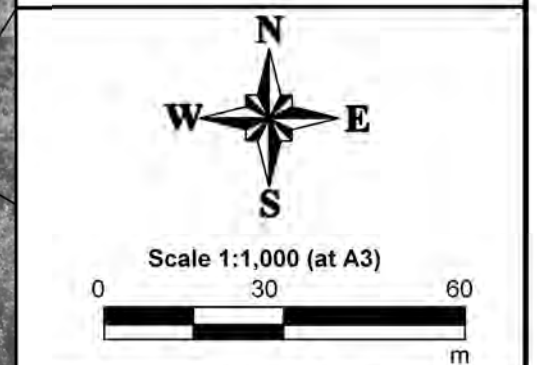
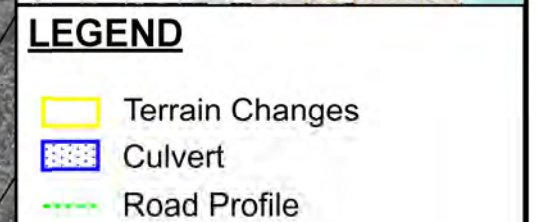
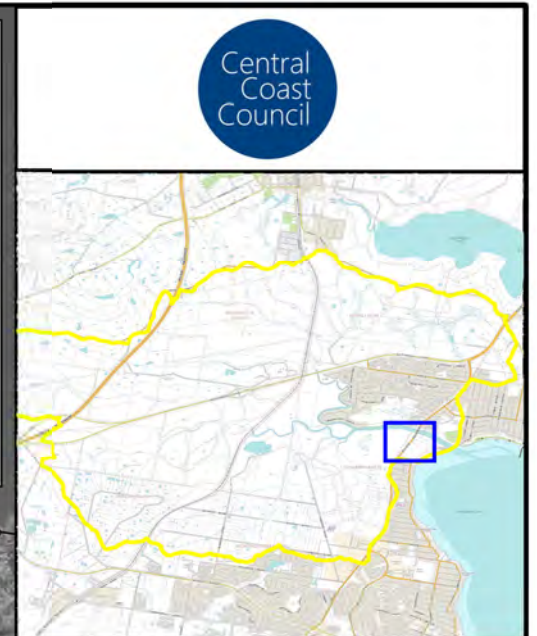
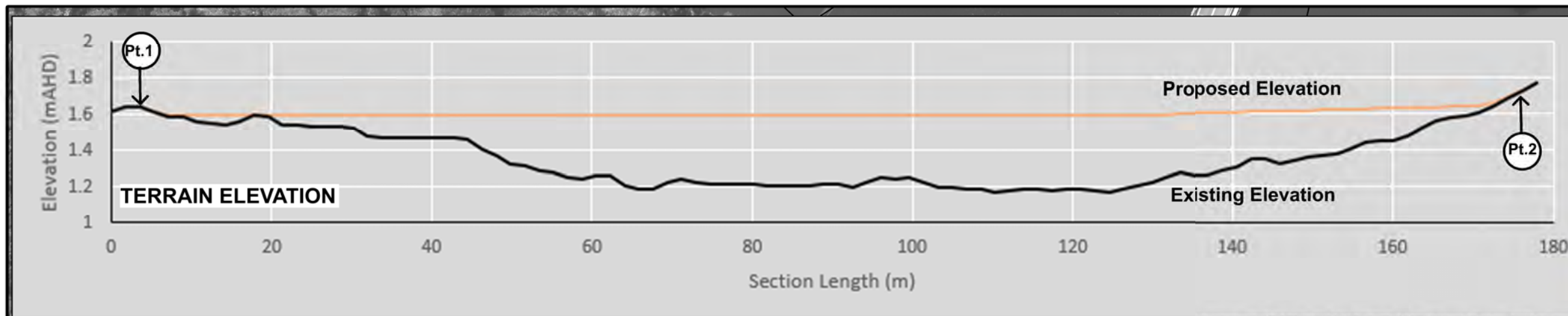


Figure 34.1:
Concept Design for the
Upgrade of Pacific
Highway (RM5)

Prepared By:
CatchmentSimulationSolutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig34.1 - Concept Design for the
 Upgrade of Pacific Highway (RM5).wor

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LEGEND

Terrain Differences

From Depth	To Depth	Colour	Depth Range	Volume
-0.30	-0.20	Dark Green	0m3	CUT
-0.20	-0.10	Green	0m3	CUT
-0.10	0.00	Light Green	0m3	CUT
0.00	0.10	Light Orange	152m3	FILL
0.10	0.20	Orange	123m3	FILL
0.20	0.44	Dark Orange	109m3	FILL
Preliminary Cut Volume = 0m3				
Preliminary Fill Volume = 384m3				
Preliminary Net Volume = 384m3				



Scale 1:1,000 (at A3)

0 30 60 m

Figure 34.2:
Concept Design for the
Upgrade of Pacific
Highway (RM5)

Prepared By:

CatchmentSimulationSolutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig34.2 - Concept Design for the Upgrade of Pacific Highway (RM5).wor

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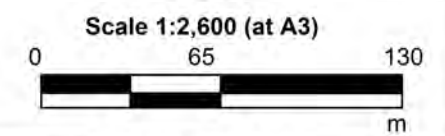
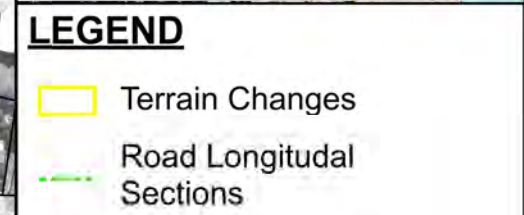
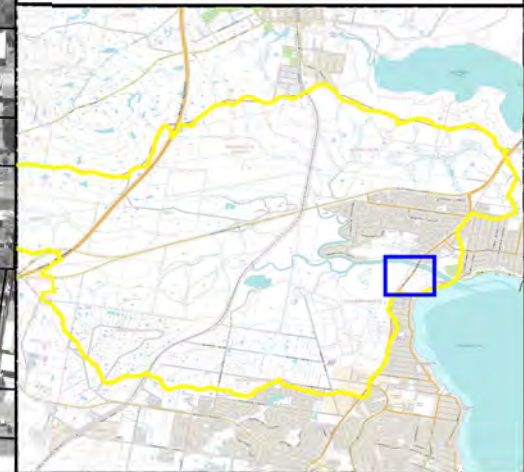


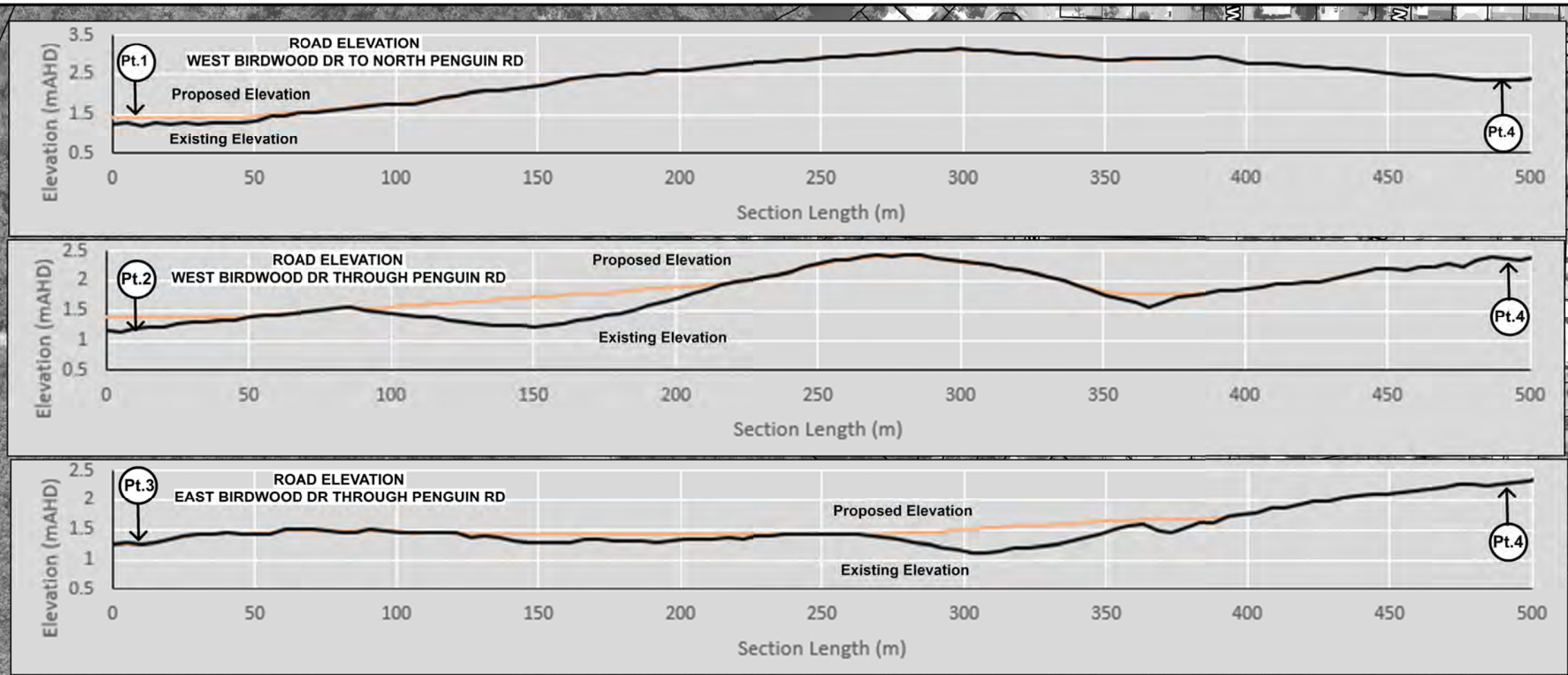
Figure 35.1:
Concept Design for the
Upgrade of Birdwood
Drive (RM6)

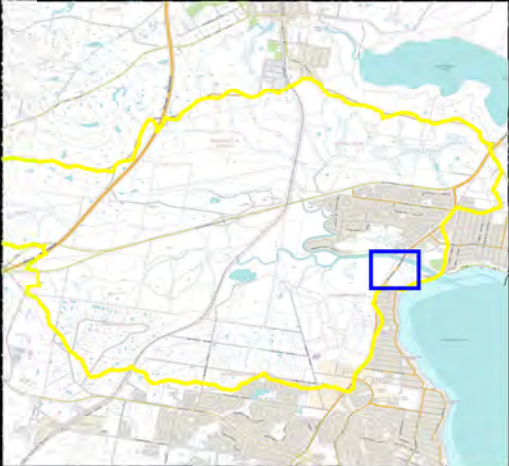
Prepared By:
Catchment Simulation Solutions
 Suite 10.01, 70 Phillip St
 Sydney, NSW 2000

File Name: Fig35.1 - Concept Design for the Upgrade of Birdwood Drive (RM6).wor

Warrarah Creek

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LEGEND

Terrain Differences				
From Depth	To Depth	Colour	Depth Range	Volume
-0.45	-0.30	Dark Green	0m3	CUT
-0.30	-0.15	Green	0m3	CUT
-0.15	0.00	Light Green	0m3	CUT
0.00	0.15	Light Orange	244m3	FILL
0.15	0.30	Orange	151m3	FILL
0.30	0.45	Dark Orange	79m3	FILL
Preliminary Cut Volume = 0m3				
Preliminary Fill Volume = 474m3				
Preliminary Net Volume = 474m3				

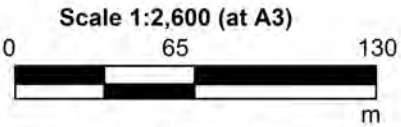


Figure 35.2:
Concept Design for the
Upgrade of Birdwood
Drive (RM6)

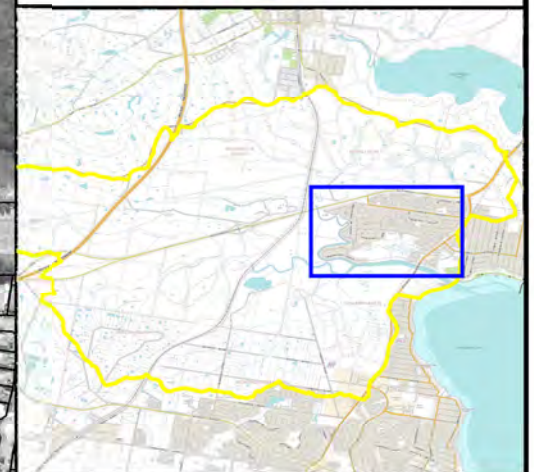
Prepared By:
 **Catchment Simulation Solutions**
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig35.2 - Concept Design for the
Upgrade of Birdwood Drive (RM6).wor



DRAFT FLOODPLAIN RISK MANAGEMENT PLAN





LEGEND

- High Priority Option
- Medium or Low Priority Option
- Not recommended
- FM Flood Modification Option
- PM Property Modification Option
- RM Response Modification Option



Scale 1:7,000 (at A3)

0 175 350 m

Figure 36: Draft Floodplain Risk Management Plan for the Wallarah Creek Catchment

Prepared By:

Catchment Simulation Solutions
Suite 10.01, 70 Phillip St
Sydney, NSW 2000

File Name: Fig36 - Draft FPRMP for the Wallarah Catchment.wor

RM1 - Community Education Activities

Recommendations:
Make flood information available:
-Update and extend type of flood information on Council's online mapping portal.
-Prepare a Wallarah Creek flood fact sheet.
-Undertake modelling of an intermediate event between the 1% AEP and PMF.
-Consider including information about all floods up to the PMF on Section 10.7(5) planning certificates, and/or issue customised flood information certificates regularly.

Provide guidance to help people plan for flooding:
-Organise a 'meet-the-street' style event for residents in the vicinity of Birdwood Drive and Turner Close, and repeat at intervals.

RM2 - Preparation of Residential Flood Plans

Recommendation: Promote 'Get Ready' messaging and resources available for developing household flood plans.

RM3 - Preparation of Business Flood Plans

Recommendation: Engage with flood prone businesses to help them understand flood hazard and prepare emergency business continuity plan.

RM4 - Local Flood Plan Updates

Recommendation: Update Wyong Local Flood Plan to align with new SES LFP template and to incorporate new flood intelligence.

PM1 - Updates to LEP and DCP

Recommendations:
Central Coast LEP:
-Consider applying for 'adequate justification' as per Ministerial Direction No. 4.3 Flood Prone Land.
-Amend the definition of flood planning level (FPL) provided in the LEP dictionary so as to apply a variable freeboard across the Wallarah Creek catchment.
-Apply to amend Clause 7.3(3) to provide Council with discretion to be assured of either safe evacuation of safe on-site refuge above the PMF.
Central Coast DCP:
-Consider incorporating flood function and hydraulic categories, in addition to flood hazard for the definition of flood precincts.
-Recognise the risk associated with events rarer than the 1% AEP flood and strive to mitigate this risk especially through evacuation requirements.
-Include different freeboards into FPLs for setting minimum habitable floor levels, appropriate to the type of flooding.
-Include controls to facilitate safer on-site refuges (for a PMF event), where appropriate.

PM2 - Voluntary Purchase of Select Properties

Recommendation: Voluntary house purchase not considered feasible.

RM8 - Refuge in Place Strategy

Recommendation: Conduct further research to inform appropriate response strategies for the Wallarah Creek catchments, and implement a community-led planning process to confirm response strategies.

FM1 - Doyalson Link Road Basin

Recommendation: Not recommended for implementation to manage the existing flood risk. However, can be considered for further investigation to manage the future flood risk.

RM7 - Extension of Turner Close to McKellar Boulevard.

Recommendation: Recommended for further consideration/consultation with the local community.

FM5 - Creek Maintenance/Removal of Dense Vegetation

Recommendation: Not recommended for implementation.

FM3 - Pinehurst Way Stormwater Upgrades

Recommendation: Can be considered for implementation in isolation. However, greater benefits would be afforded if combined with other Pinehurst Way mitigation options.

FM10 - Pinehurst Way Flow Path Reshaping

Recommendation: Recommended for implementation in isolation or in conjunction with other Pinehurst Way mitigation options.

FM2 - Modify Pinehurst Way Detention/ Water Quality Basin

Recommendation: Not recommended for implementation in isolation. Could be considered for implementation in conjunction with other Pinehurst Way options.

FM7 - Allambee Crescent Channel Modifications

Recommendation: Not recommended for implementation.

FM4 - Brava Avenue Floodwall and Drainage Modifications

Recommendation: Not recommended for implementation.

RM6 - Upgrade of Birdwood Drive

Recommendation: Recommended for implementation as a long term strategy.

FM11 - Pinehurst Way Modified Detention Basin, Stormwater Upgrades and Flow Path Reshaping

Recommendation: Recommended for implementation.

FM6 - Spring Creek High Flow Bypass

Recommendation: Not recommended for implementation.

FM9 - Dredge Wallarah Creek Downstream of Spring Creek Confluence

Recommendation: Not recommended for implementation.

FM8 - Enlarge Unnamed Watercourse Between Brava and Costa Avenues

Recommendation: Not recommended for implementation.

RM5 - Update of Pacific Highway

Recommendation: Not recommended for implementation.